09934926.082302

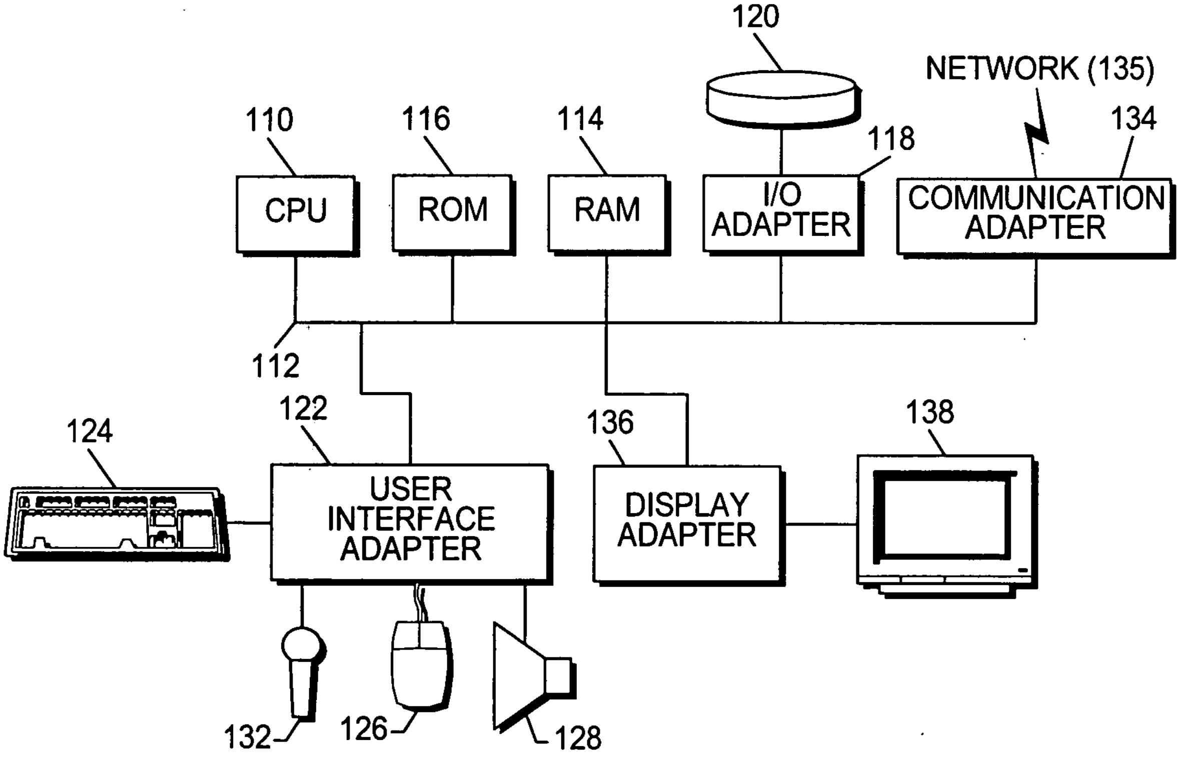

120
NETWORK (135)
110
116
114
118
134
CPU
ROM
RAM
I/O ADAPTER
COMMUNICATION ADAPTER
112
122
124
136
138
USER INTERFACE ADAPTER
DISPLAY ADAPTER
132
126
128

FIGURE 1

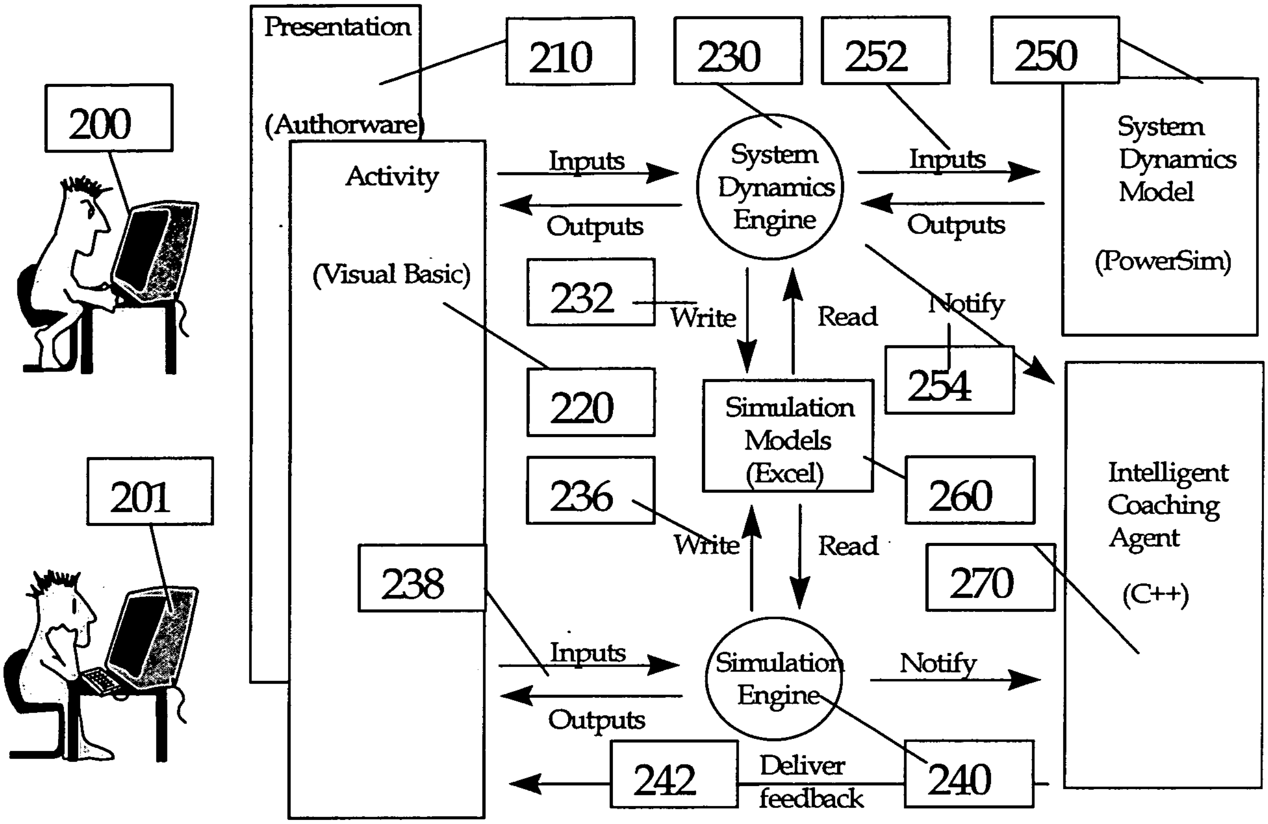

200
201
Presentation
(Authorware)
210
Activity
(Visual Basic)
220
230
System Dynamics Engine
252
250
System Dynamics Model
(PowerSim)
Inputs
Outputs
Inputs
Outputs
232
Write
Read
Notify
254
Simulation Models (Excel)
260
236
Write
Read
270
Intelligent Coaching Agent
(C++)
238
Inputs
Outputs
Simulation Engine
Notify
242
Deliver feedback
240

FIGURE 2

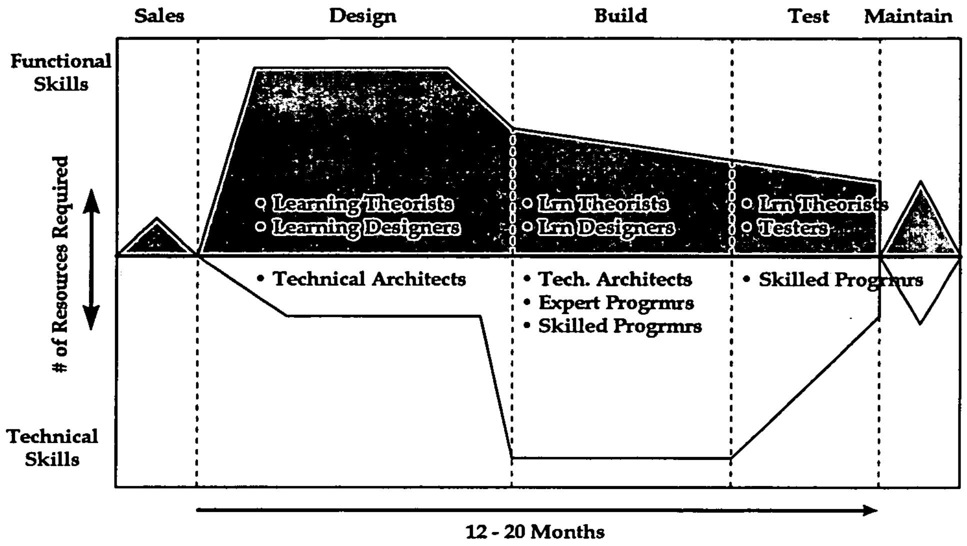


FIGURE 3

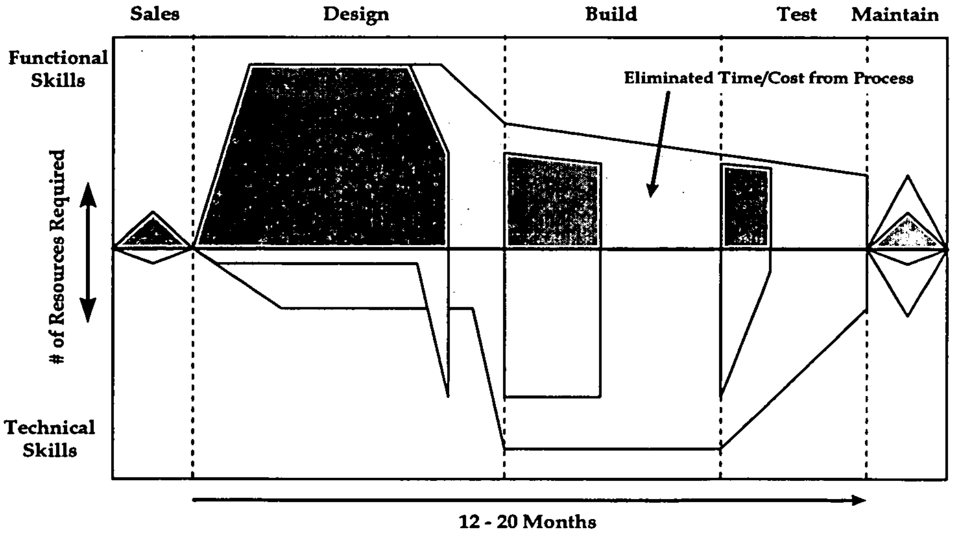


FIGURE 4

09643924 . 082201

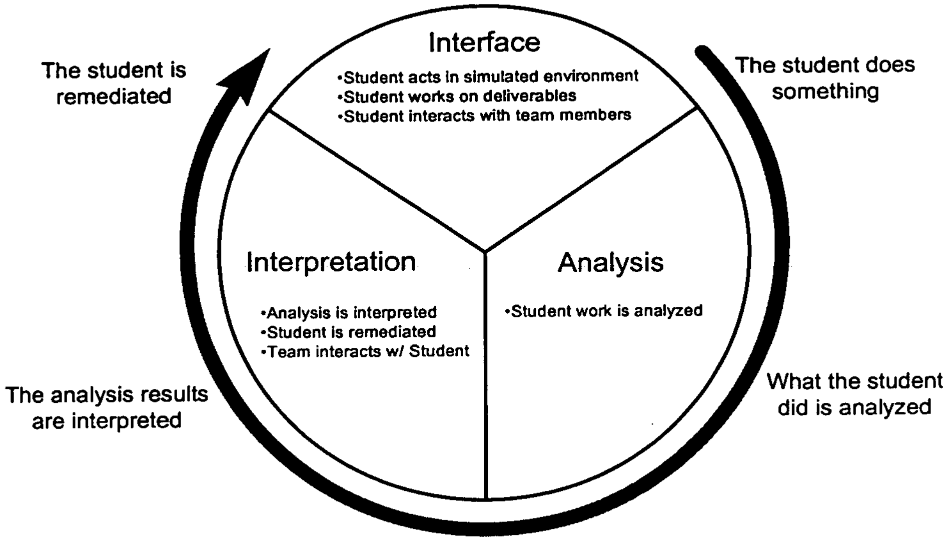

Interface
•Student acts in simulated environment
•Student works on deliverables
•Student interacts with team members
The student does something
Analysis
•Student work is analyzed
What the student did is analyzed
Interpretation
•Analysis is interpreted
•Student is remediated
•Team interacts w/ Student
The analysis results are interpreted
The student is remediated

FIGURE 5

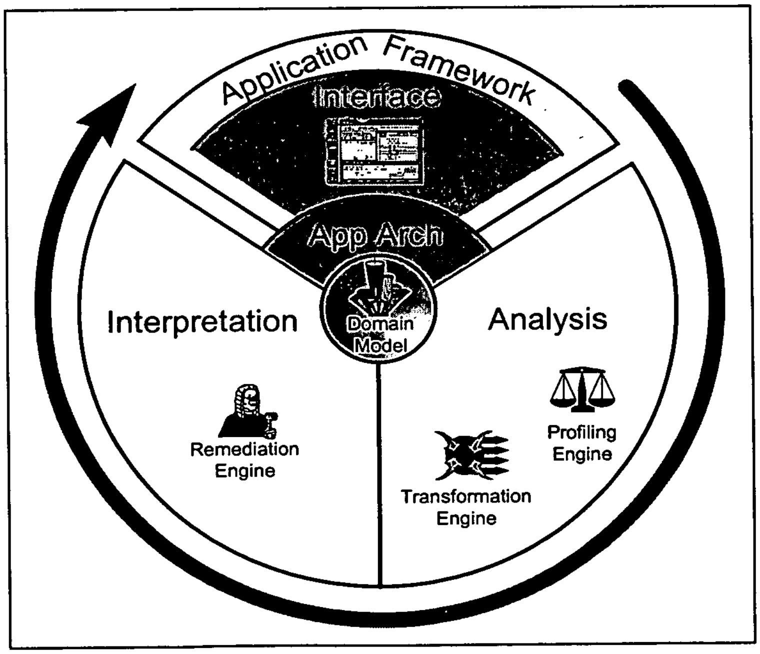

Application Framework
Interface
App Arch
Domain Model
Interpretation
Remediation Engine
Analysis
Profiling Engine
Transformation Engine

FIGURE 6

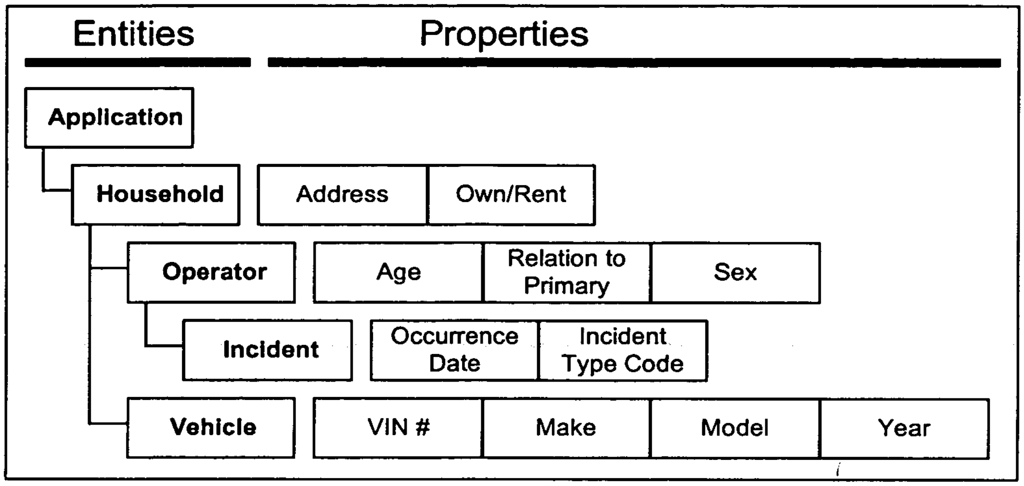

Entities
Properties
Application
Household
Address
Own/Rent
Operator
Age
Relation to Primary
Sex
Incident
Occurrence Date
Incident Type Code
Vehicle
VIN #
Make
Model
Year

FIGURE 7

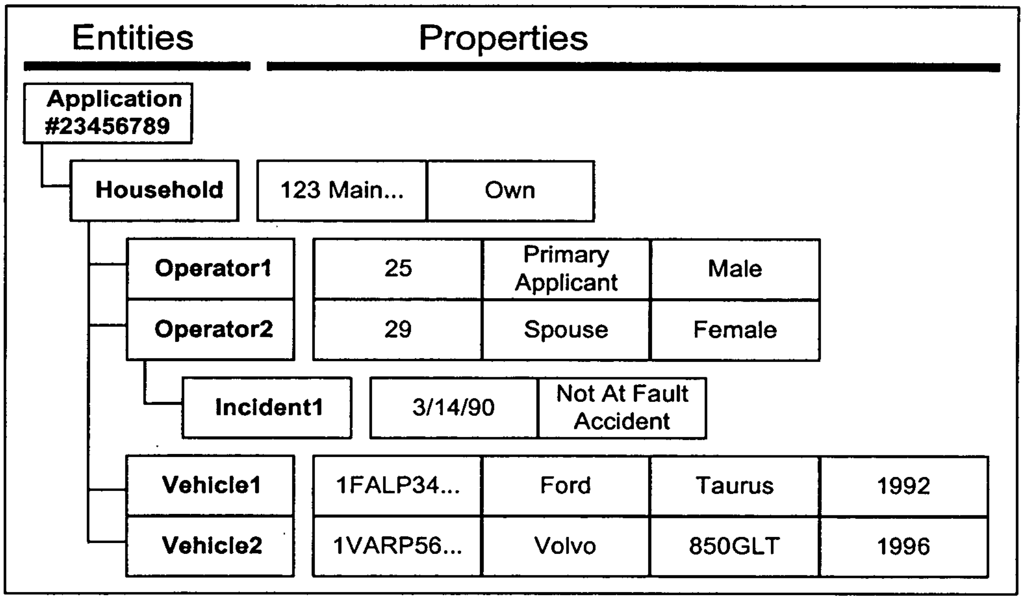

Entities
Properties
Application #23456789
Household
123 Main...
Own
Operator1
25
Primary Applicant
Male
Operator2
29
Spouse
Female
Incident1
3/14/90
Not At Fault Accident
Vehicle1
1FALP34...
Ford
Taurus
1992
Vehicle2
1VARP56...
Volvo
850GLT
1996

FIGURE 8

09634924.082201

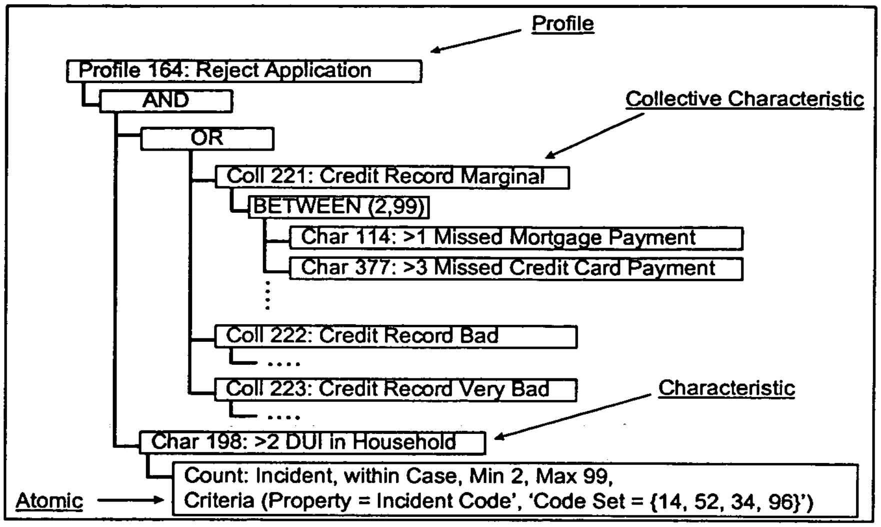

Profile
Profile 164: Reject Application
AND
Collective Characteristic
OR
Coll 221: Credit Record Marginal
BETWEEN (2,99)
Char 114: >1 Missed Mortgage Payment
Char 377: >3 Missed Credit Card Payment
Coll 222: Credit Record Bad
....
Coll 223: Credit Record Very Bad
....
Characteristic
Char 198: >2 DUI in Household
Count: Incident, within Case, Min 2, Max 99,
Criteria (Property = Incident Code', 'Code Set = {14, 52, 34, 96}')
Atomic

FIGURE 9

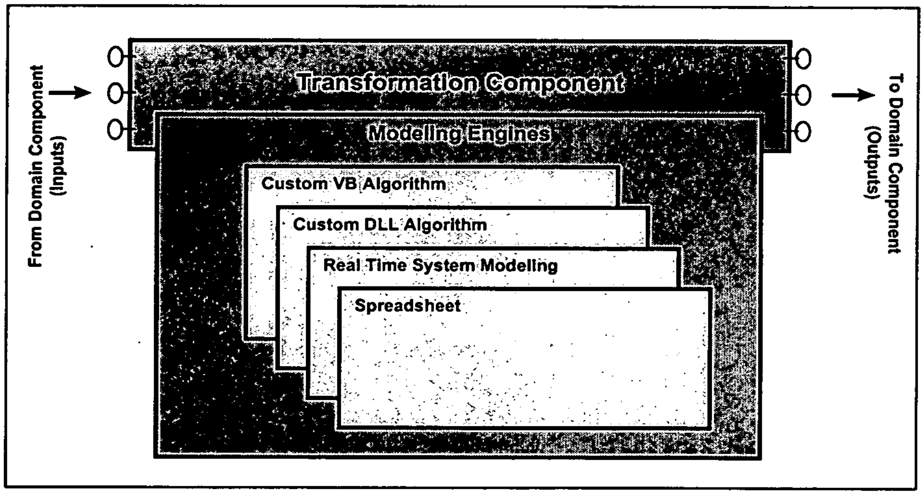
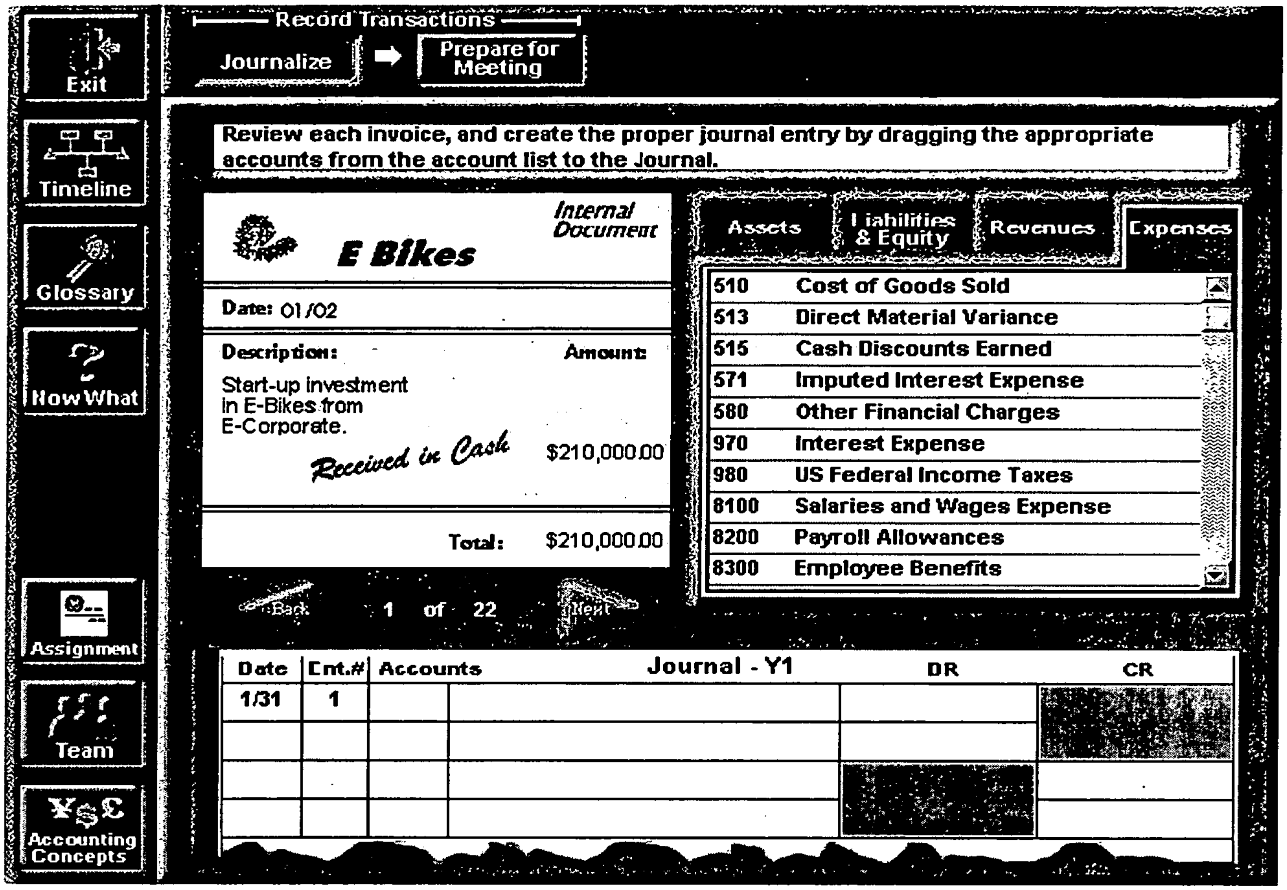

From Domain Component
(Inputs)
Transformation Component
Modeling Engines
Custom VB Algorithm
Custom DLL Algorithm
Real Time System Modeling
Spreadsheet
To Domain Component
(Outputs)

FIGURE 10

09643264 .082201

09534924 . 022801


Exit
Timeline
Glossary
Now What
Assignment
Team
¥$£
Accounting Concepts
Record Transactions
Journalize
Prepare for Meeting
Assets
Liabilities & Equity
Revenues
Expenses
Back
1 of 22
Next

Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

E Bikes *Internal Document*

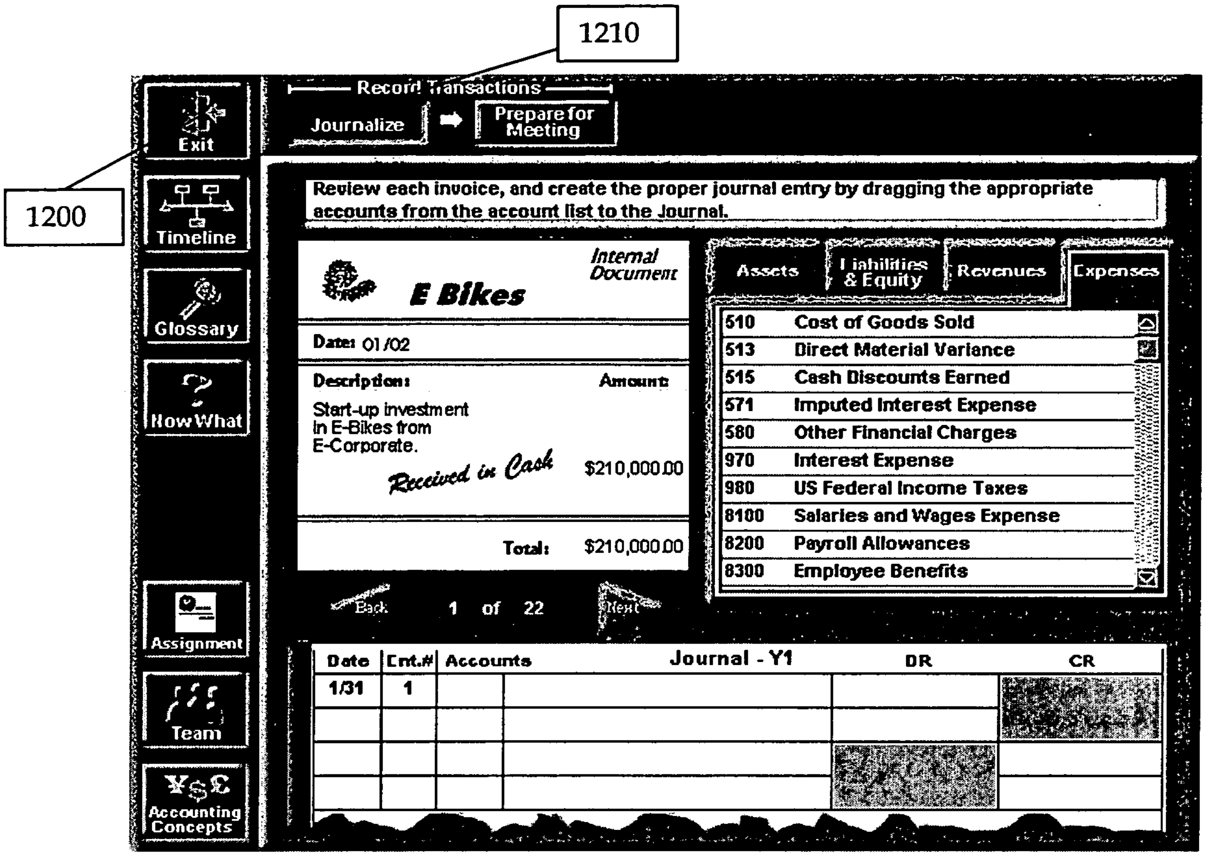
Date: 01/02

Description:	Amount:
Start-up investment in E-Bikes from E-Corporate. Received in Cash	$210,000.00
Total:	$210,000.00

510	Cost of Goods Sold
513	Direct Material Variance
515	Cash Discounts Earned
571	Imputed Interest Expense
580	Other Financial Charges
970	Interest Expense
980	US Federal Income Taxes
8100	Salaries and Wages Expense
8200	Payroll Allowances
8300	Employee Benefits

Date	Ent.#	Accounts	Journal - Y1	DR	CR
1/31	1				▨
					▨
				▨	
				▨	

FIGURE 11


1210
1200
Record Transactions
Journalize
Prepare for Meeting
Exit
Timeline
Glossary
How What
Assignment
Team
Accounting Concepts
Assets
Liabilities & Equity
Revenues
Expenses
Back
1 of 22
Next

Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

E Bikes *Internal Document*

Date: 01/02

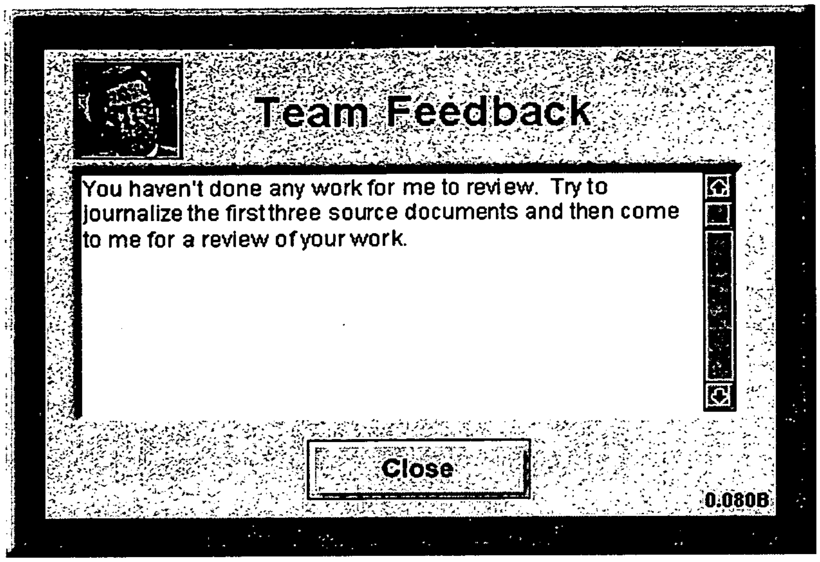
Description:	Amount:
Start-up investment in E-Bikes from E-Corporate. *Received in Cash*	$210,000.00
Total:	$210,000.00

510	Cost of Goods Sold
513	Direct Material Variance
515	Cash Discounts Earned
571	Imputed Interest Expense
580	Other Financial Charges
970	Interest Expense
980	US Federal Income Taxes
8100	Salaries and Wages Expense
8200	Payroll Allowances
8300	Employee Benefits

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	1				▨
				▨	

Figure 12



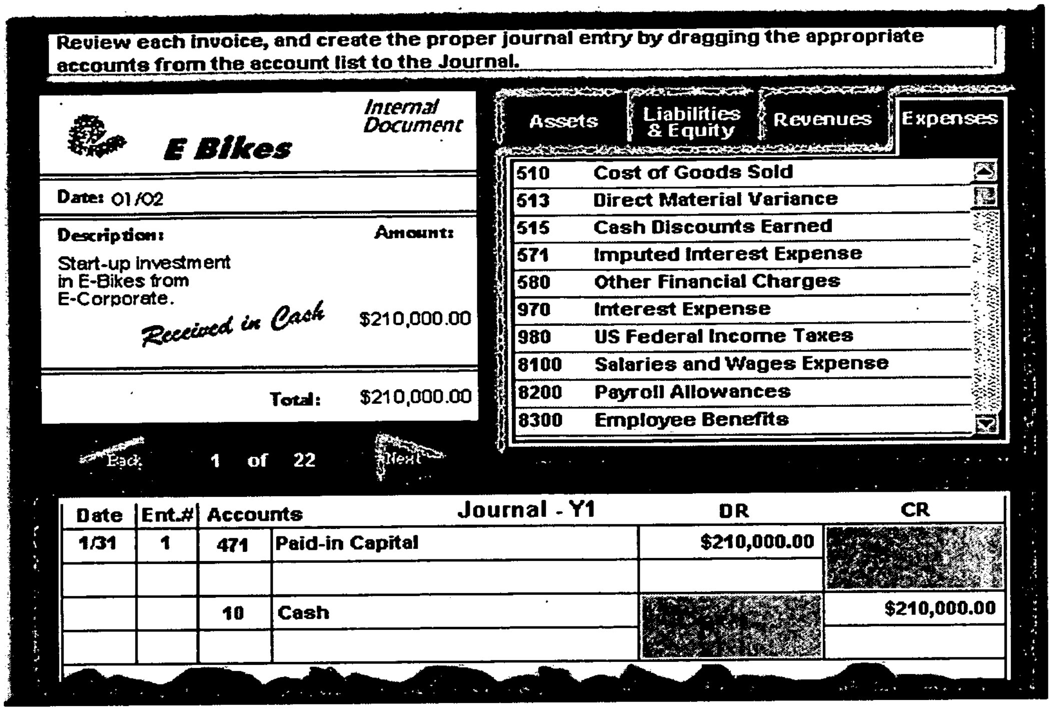
Team Feedback

You haven't done any work for me to review. Try to journalize the first three source documents and then come to me for a review of your work.

Close
0.080B

Figure 13

09934254.082201



Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

E Bikes

Internal Document

Date: 01/02

Description:
Start-up investment
in E-Bikes from
E-Corporate.

Received in Cash

Amount: $210,000.00

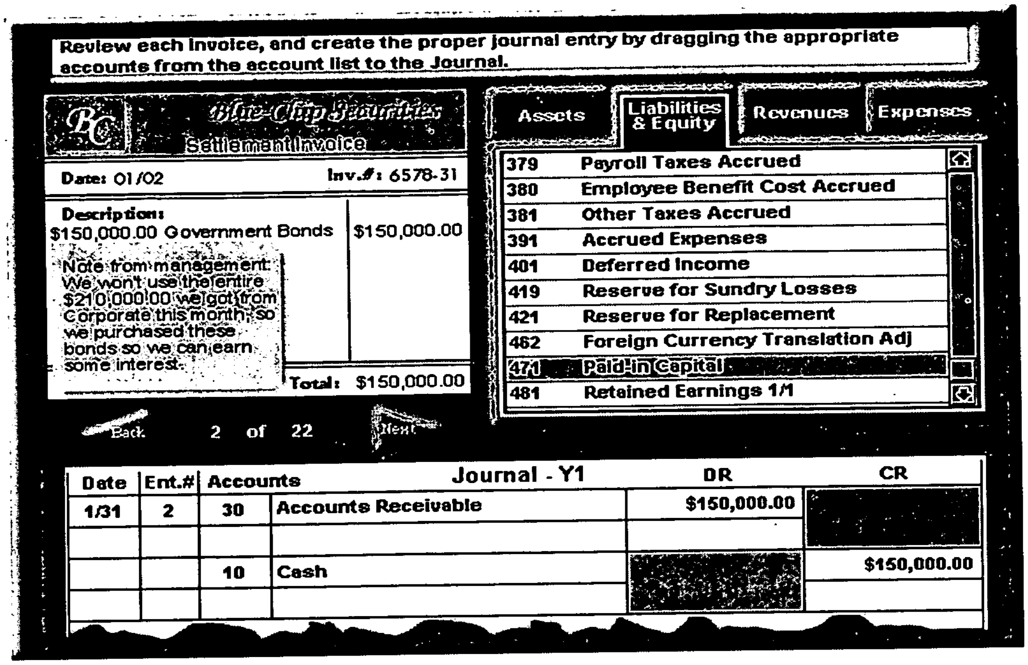
Total: $210,000.00

510	Cost of Goods Sold
513	Direct Material Variance
515	Cash Discounts Earned
571	Imputed Interest Expense
580	Other Financial Charges
970	Interest Expense
980	US Federal Income Taxes
8100	Salaries and Wages Expense
8200	Payroll Allowances
8300	Employee Benefits

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	1	471	Paid-in Capital	$210,000.00	
		10	Cash		$210,000.00

Figure 14



Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

BC
Blue-Chip Securities
Settlement Invoice

Date: 01/02 **Inv.#:** 6578-31

Description:
$150,000.00 Government Bonds $150,000.00

Note from management: We won't use the entire $210,000.00 we got from Corporate this month, so we purchased these bonds so we can earn some interest.

Total: $150,000.00

Back
2 of 22
Next
Assets
Liabilities & Equity
Revenues
Expenses

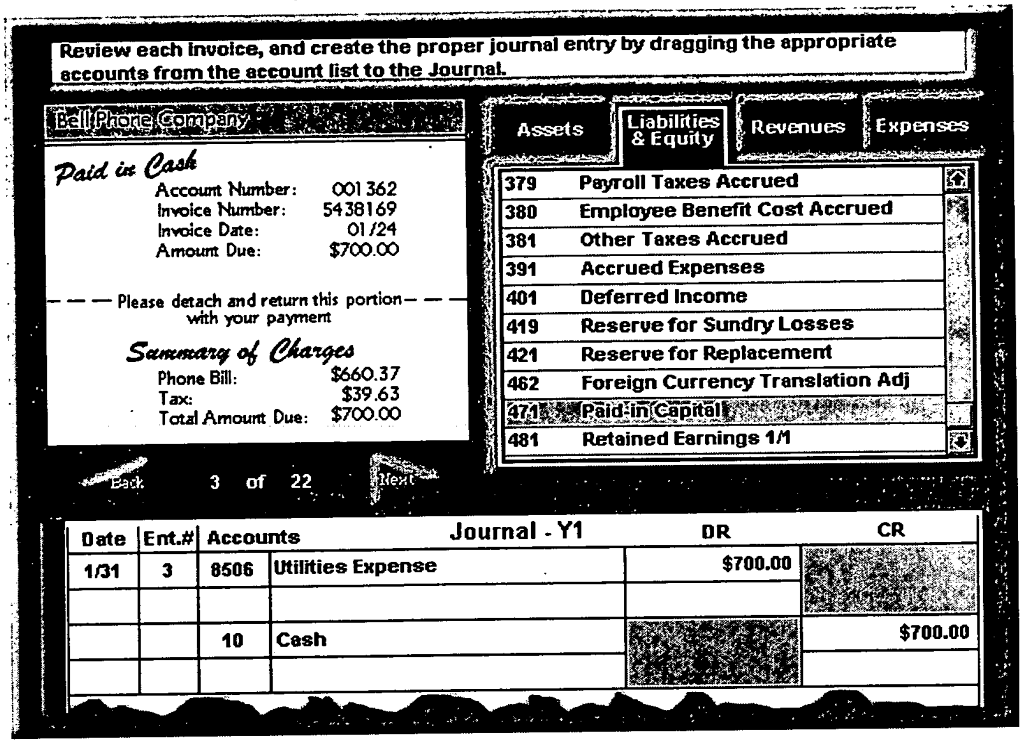
379	Payroll Taxes Accrued
380	Employee Benefit Cost Accrued
381	Other Taxes Accrued
391	Accrued Expenses
401	Deferred Income
419	Reserve for Sundry Losses
421	Reserve for Replacement
462	Foreign Currency Translation Adj
471	Paid-in Capital
481	Retained Earnings 1/1

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	2	30	Accounts Receivable	$150,000.00	
		10	Cash		$150,000.00

Figure 15

09634254.022301



Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

Bell Phone Company

Paid in Cash

Account Number: 001362
Invoice Number: 5438169
Invoice Date: 01/24
Amount Due: $700.00

— — — Please detach and return this portion — — —
with your payment

Summary of Charges

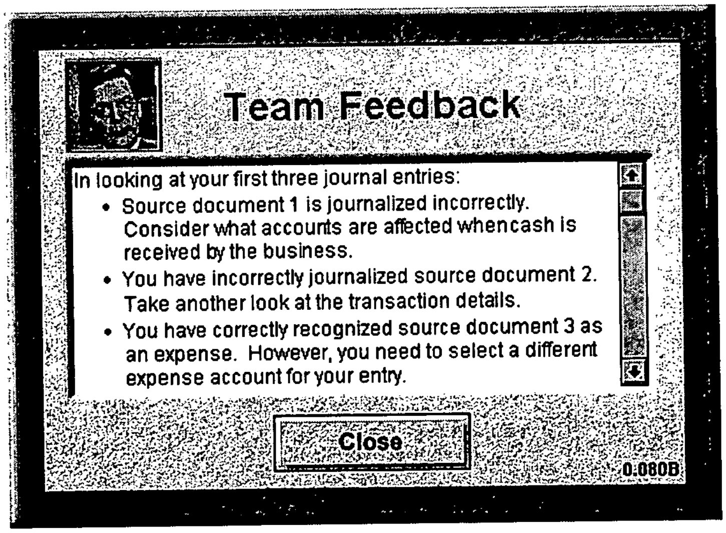
Phone Bill:	$660.37
Tax:	$39.63
Total Amount Due:	$700.00

379	Payroll Taxes Accrued
380	Employee Benefit Cost Accrued
381	Other Taxes Accrued
391	Accrued Expenses
401	Deferred Income
419	Reserve for Sundry Losses
421	Reserve for Replacement
462	Foreign Currency Translation Adj
471	Paid-in Capital
481	Retained Earnings 1/1

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	3	8506	Utilities Expense	$700.00	
		10	Cash		$700.00

Figure 16

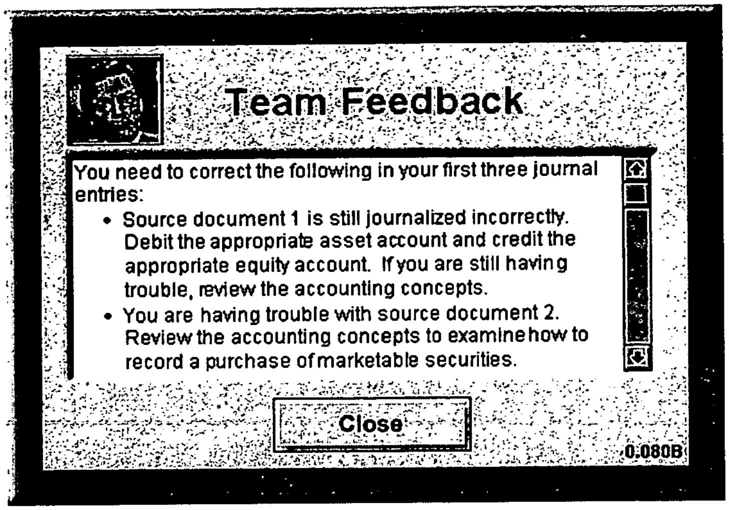


Team Feedback

In looking at your first three journal entries:

- Source document 1 is journalized incorrectly. Consider what accounts are affected when cash is received by the business.
- You have incorrectly journalized source document 2. Take another look at the transaction details.
- You have correctly recognized source document 3 as an expense. However, you need to select a different expense account for your entry.

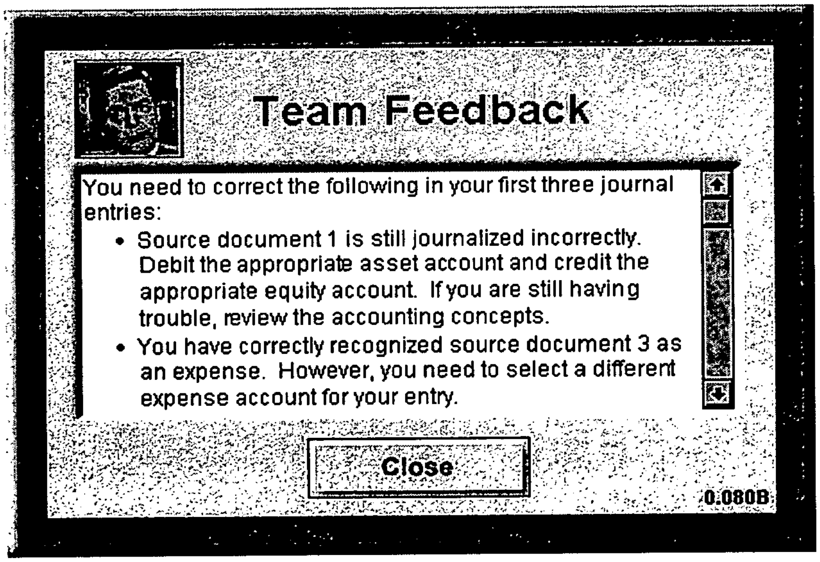
Figure 17



You need to correct the following in your first three journal entries:

- Source document 1 is still journalized incorrectly. Debit the appropriate asset account and credit the appropriate equity account. If you are still having trouble, review the accounting concepts.
- You are having trouble with source document 2. Review the accounting concepts to examine how to record a purchase of marketable securities.

Figure 18

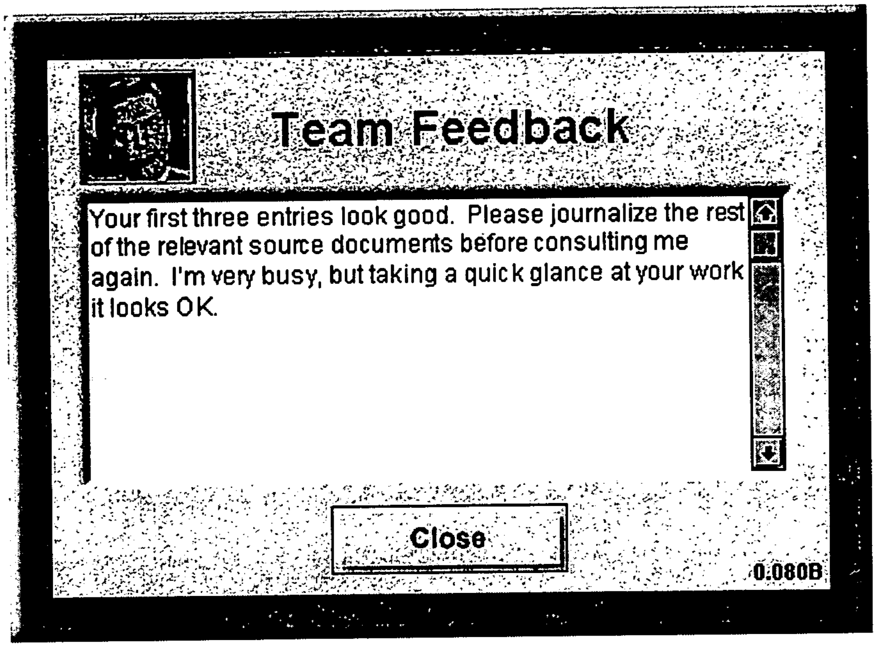


You need to correct the following in your first three journal entries:

- Source document 1 is still journalized incorrectly. Debit the appropriate asset account and credit the appropriate equity account. If you are still having trouble, review the accounting concepts.
- You have correctly recognized source document 3 as an expense. However, you need to select a different expense account for your entry.

Figure 19

09534924.022801


Team Feedback
Close
0.080B

Your first three entries look good. Please journalize the rest of the relevant source documents before consulting me again. I'm very busy, but taking a quick glance at your work it looks OK.

Figure 20

09634624.082201

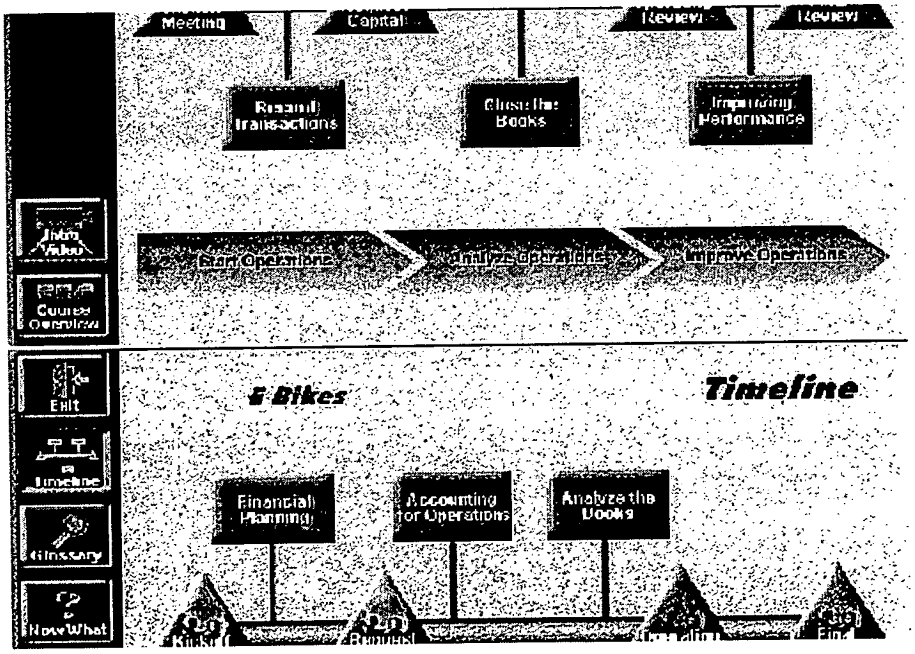
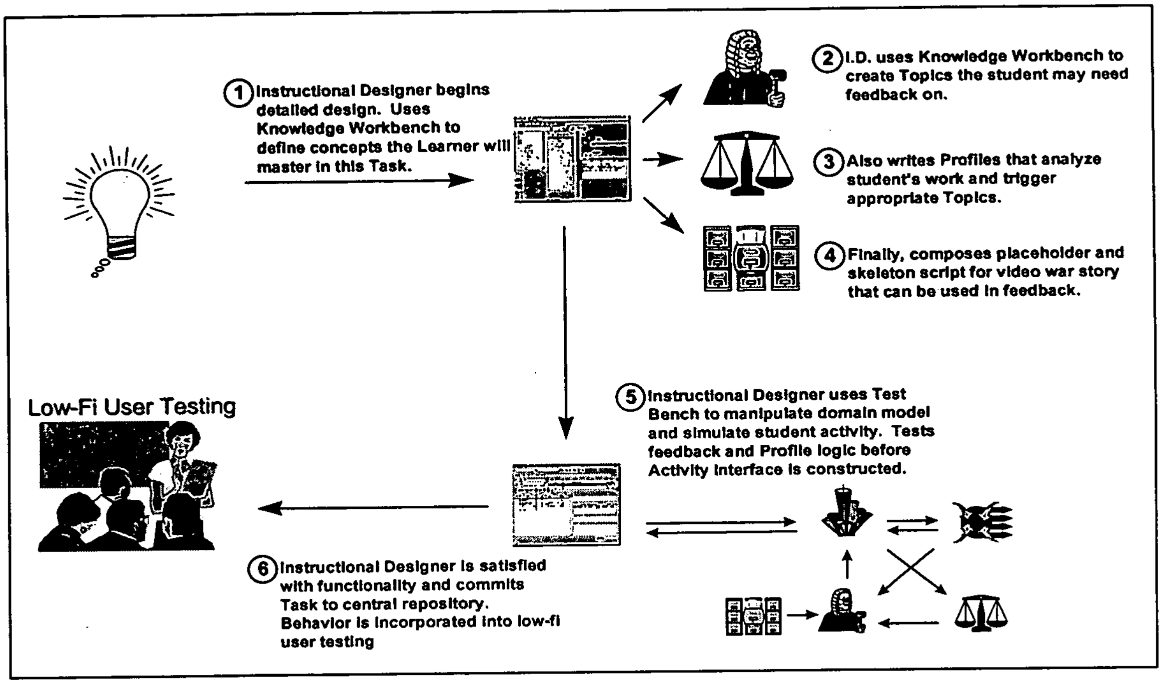

Meeting
Capital
Review
Review
Record Transactions
Close the Books
Improving Performance
Intro Video
Course Overview
Start Operations
Analyze Operations
Improve Operations
Exit
E Bikes
Timeline
Timeline
Glossary
Financial Planning
Accounting for Operations
Analyze the Books
Now What

Figure 21



①Instructional Designer begins detailed design. Uses Knowledge Workbench to define concepts the Learner will master in this Task.

②I.D. uses Knowledge Workbench to create Topics the student may need feedback on.

③Also writes Profiles that analyze student's work and trigger appropriate Topics.

④Finally, composes placeholder and skeleton script for video war story that can be used in feedback.

⑤Instructional Designer uses Test Bench to manipulate domain model and simulate student activity. Tests feedback and Profile logic before Activity Interface is constructed.

⑥Instructional Designer is satisfied with functionality and commits Task to central repository. Behavior is incorporated into low-fi user testing

FIGURE 22

09534294 . 022801

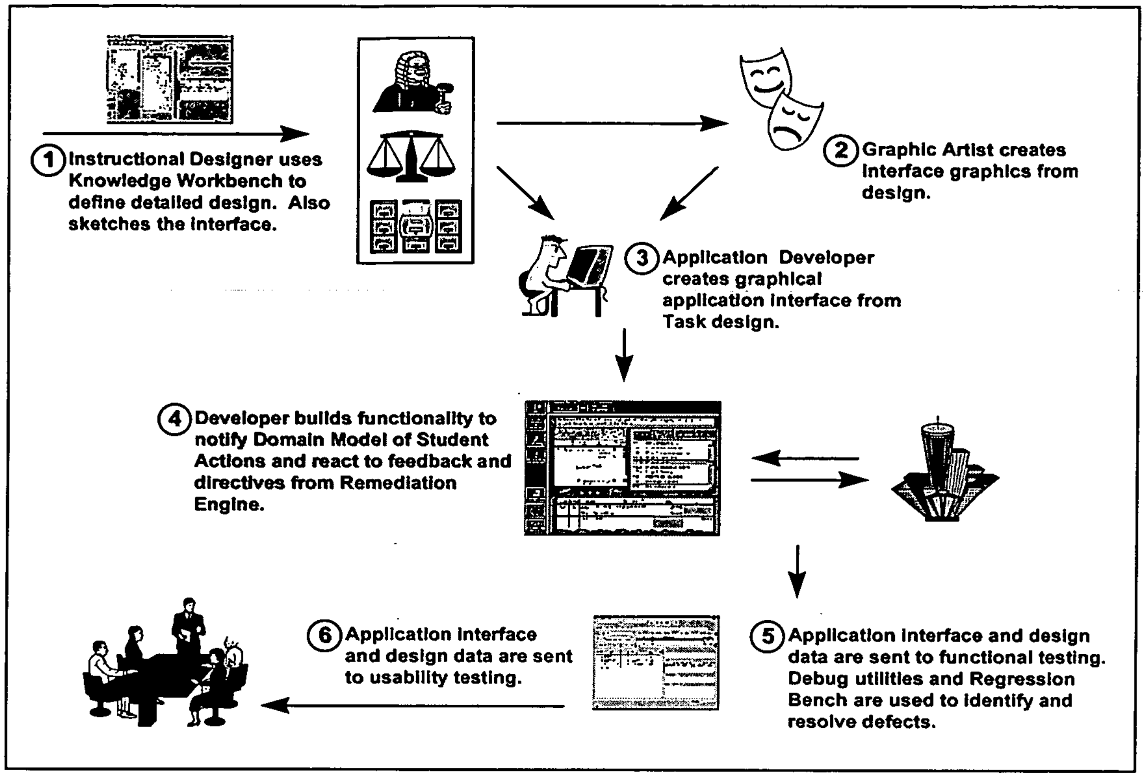
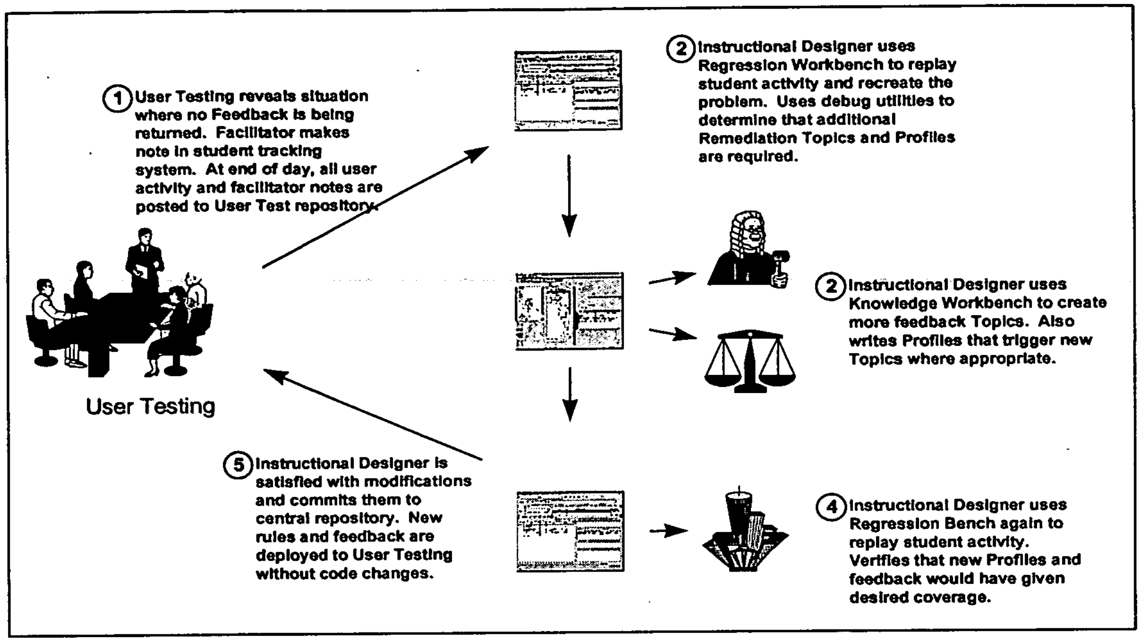

1 Instructional Designer uses Knowledge Workbench to define detailed design. Also sketches the interface.
2 Graphic Artist creates interface graphics from design.
3 Application Developer creates graphical application interface from Task design.
4 Developer builds functionality to notify Domain Model of Student Actions and react to feedback and directives from Remediation Engine.
5 Application interface and design data are sent to functional testing. Debug utilities and Regression Bench are used to identify and resolve defects.
6 Application interface and design data are sent to usability testing.

FIGURE 23



①User Testing reveals situation where no Feedback is being returned. Facilitator makes note in student tracking system. At end of day, all user activity and facilitator notes are posted to User Test repository.

②Instructional Designer uses Regression Workbench to replay student activity and recreate the problem. Uses debug utilities to determine that additional Remediation Topics and Profiles are required.

②Instructional Designer uses Knowledge Workbench to create more feedback Topics. Also writes Profiles that trigger new Topics where appropriate.

④Instructional Designer uses Regression Bench again to replay student activity. Verifies that new Profiles and feedback would have given desired coverage.

⑤Instructional Designer is satisfied with modifications and commits them to central repository. New rules and feedback are deployed to User Testing without code changes.

FIGURE 24

09534524 . 022801

09634624.082201

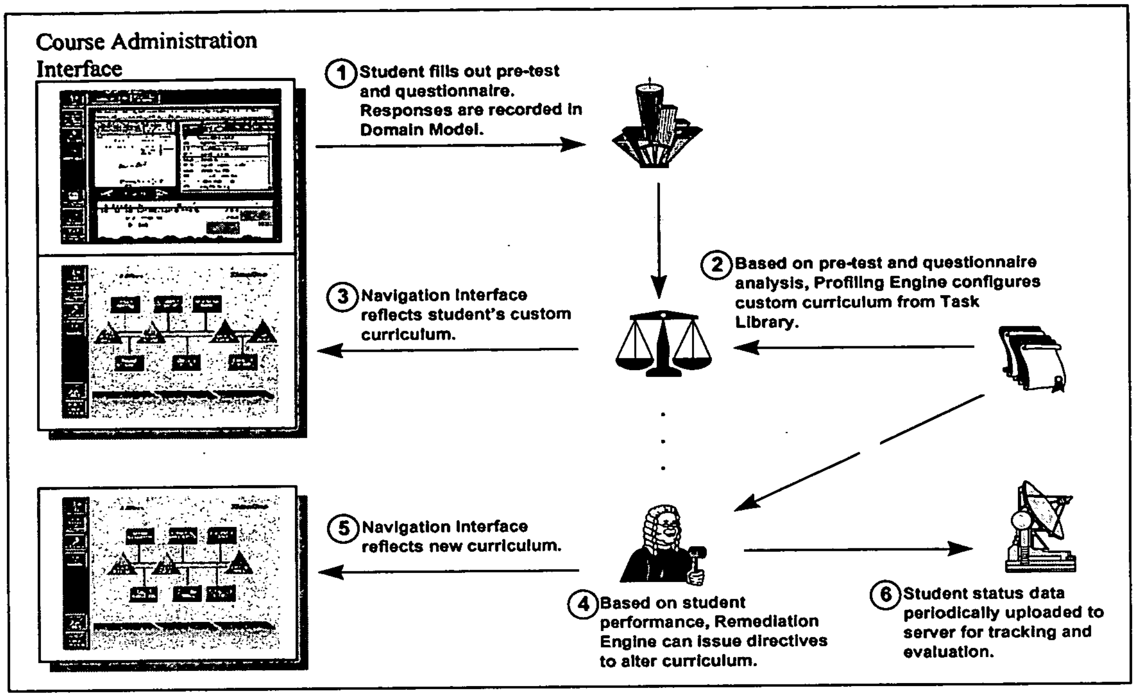

Course Administration Interface
1 Student fills out pre-test and questionnaire. Responses are recorded in Domain Model.
2 Based on pre-test and questionnaire analysis, Profiling Engine configures custom curriculum from Task Library.
3 Navigation Interface reflects student's custom curriculum.
4 Based on student performance, Remediation Engine can issue directives to alter curriculum.
5 Navigation Interface reflects new curriculum.
6 Student status data periodically uploaded to server for tracking and evaluation.

FIGURE 25

09934924.082201

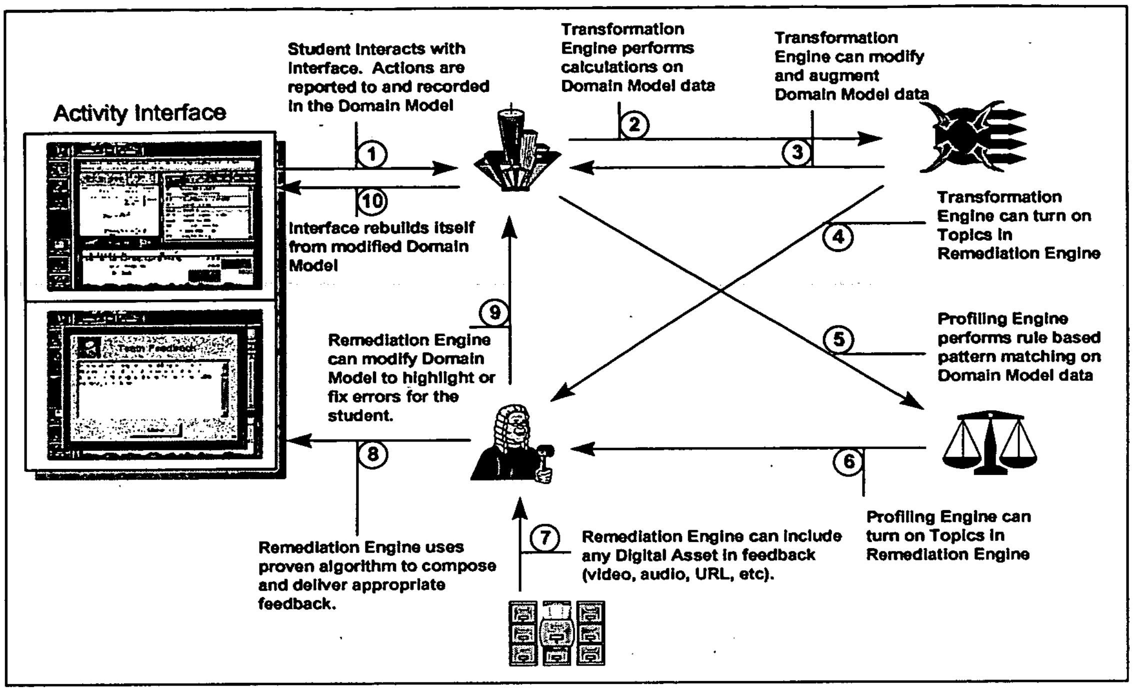
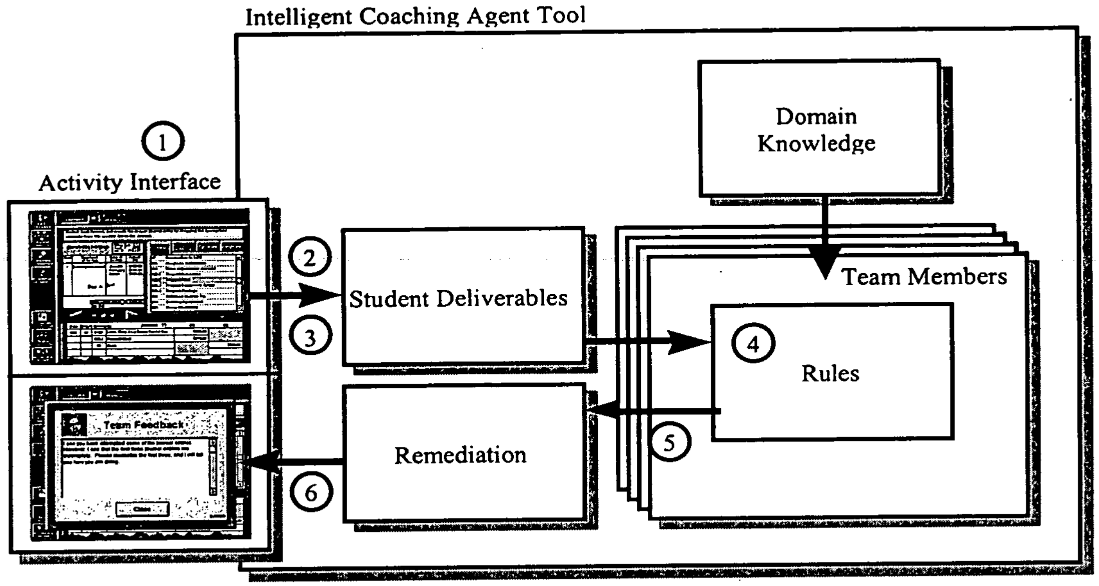

Activity Interface
Student Interacts with Interface. Actions are reported to and recorded in the Domain Model
Transformation Engine performs calculations on Domain Model data
Transformation Engine can modify and augment Domain Model data
Transformation Engine can turn on Topics in Remediation Engine
Profiling Engine performs rule based pattern matching on Domain Model data
Profiling Engine can turn on Topics in Remediation Engine
Remediation Engine can include any Digital Asset in feedback (video, audio, URL, etc).
Remediation Engine uses proven algorithm to compose and deliver appropriate feedback.
Remediation Engine can modify Domain Model to highlight or fix errors for the student.
Interface rebuilds itself from modified Domain Model
Team Feedback
1
2
3
4
5
6
7
8
9
10

FIGURE 26

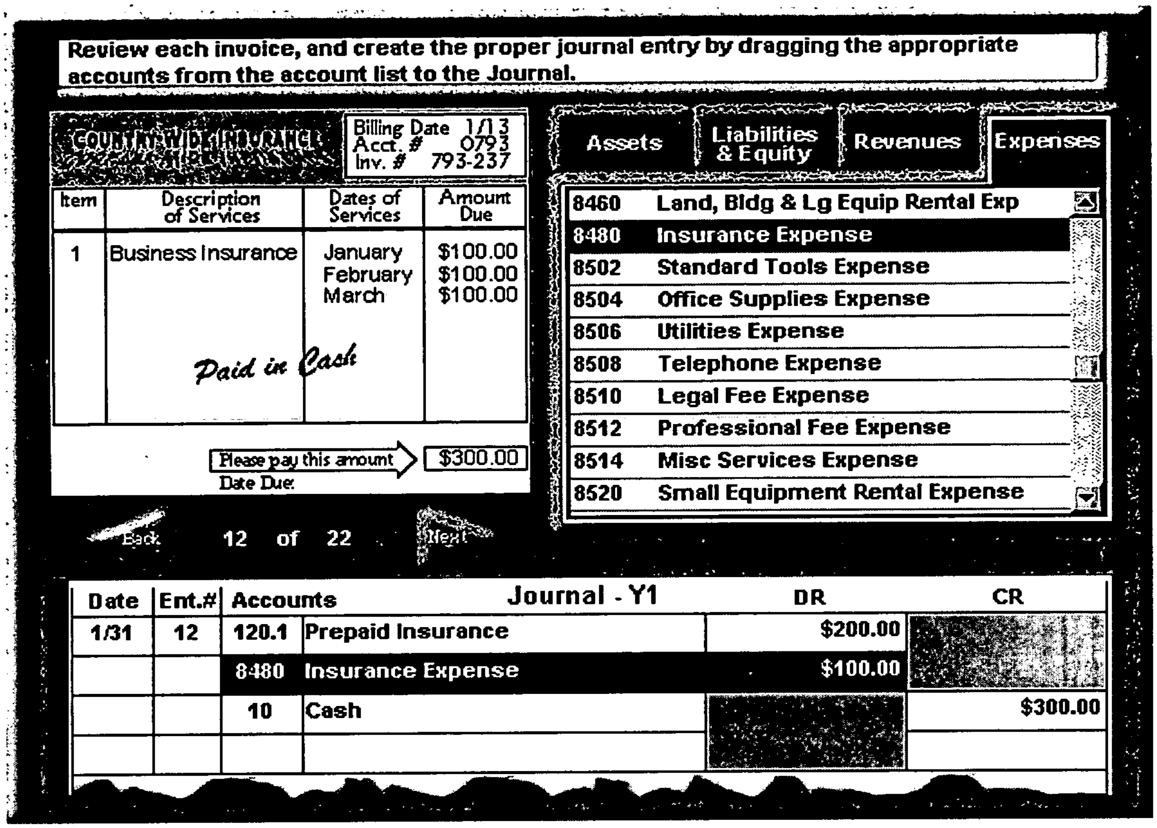
09634254.082201


Intelligent Coaching Agent Tool
①
Activity Interface
Team Feedback
Close
②
③
Student Deliverables
Domain Knowledge
Team Members
④
Rules
⑤
Remediation
⑥

1. Student Interacts with interface. Actions are reported to ICAT
2. Student actions are reported to ICAT
3. Student submits deliverables to one of the team members in ICAT
4. ICAT analyzes student deliverable using Team Member's Rules and Domain Knowledge.
5. ICAT identifies remediation topics.
6. ICAT composes feedback paragraph from most appropriate topics and delivers to student.

FIGURE 27

09634524 .022801



Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

COUNTRYWIDE INSURANCE

Billing Date 1/13
Acct. # 0793
Inv. # 793-237

Item	Description of Services	Dates of Services	Amount Due
1	Business Insurance	January February March	$100.00 $100.00 $100.00

Paid in Cash

Please pay this amount $300.00
Date Due

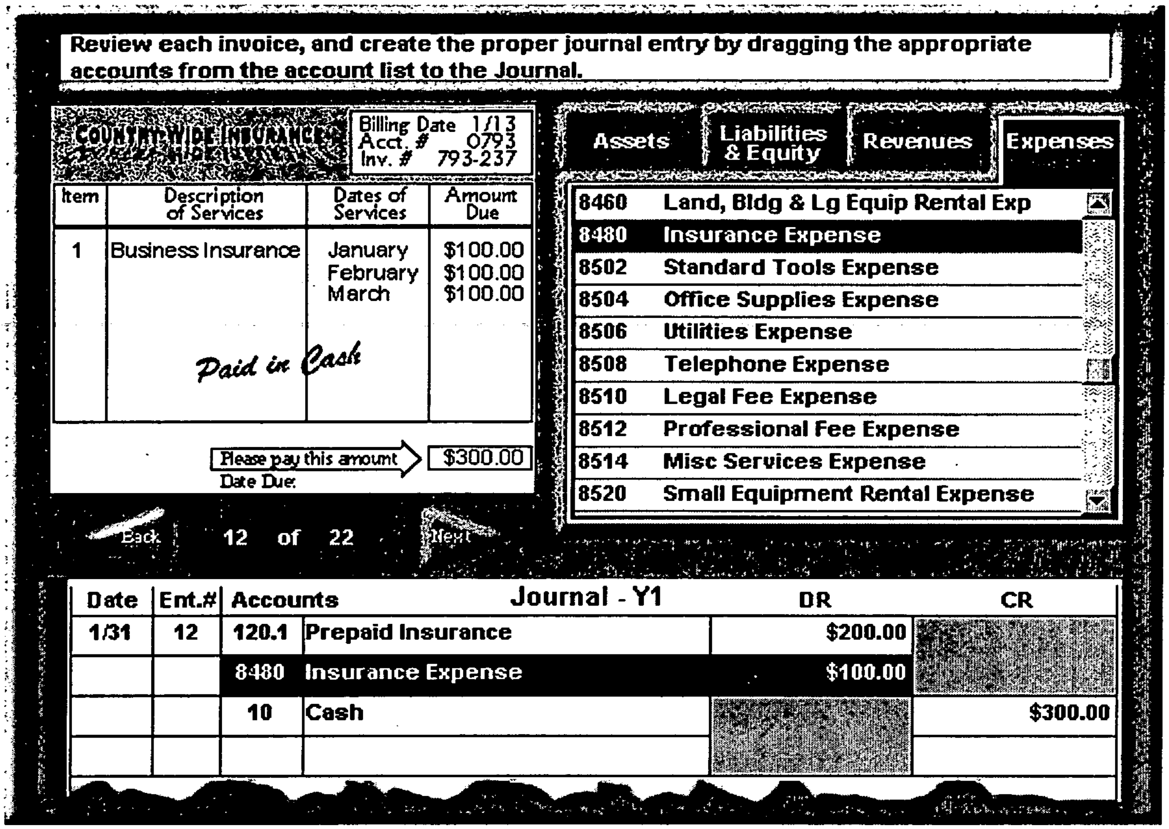
Back
12 of 22
Next
Assets
Liabilities & Equity
Revenues
Expenses

8460	Land, Bldg & Lg Equip Rental Exp
8480	Insurance Expense
8502	Standard Tools Expense
8504	Office Supplies Expense
8506	Utilities Expense
8508	Telephone Expense
8510	Legal Fee Expense
8512	Professional Fee Expense
8514	Misc Services Expense
8520	Small Equipment Rental Expense

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	12	120.1	Prepaid Insurance	$200.00	
		8480	Insurance Expense	$100.00	
		10	Cash		$300.00

FIGURE 28



Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

COUNTRYWIDE INSURANCE

Billing Date 1/13
Acct. # 0793
Inv. # 793-237

Item	Description of Services	Dates of Services	Amount Due
1	Business Insurance	January February March	$100.00 $100.00 $100.00

Paid in Cash

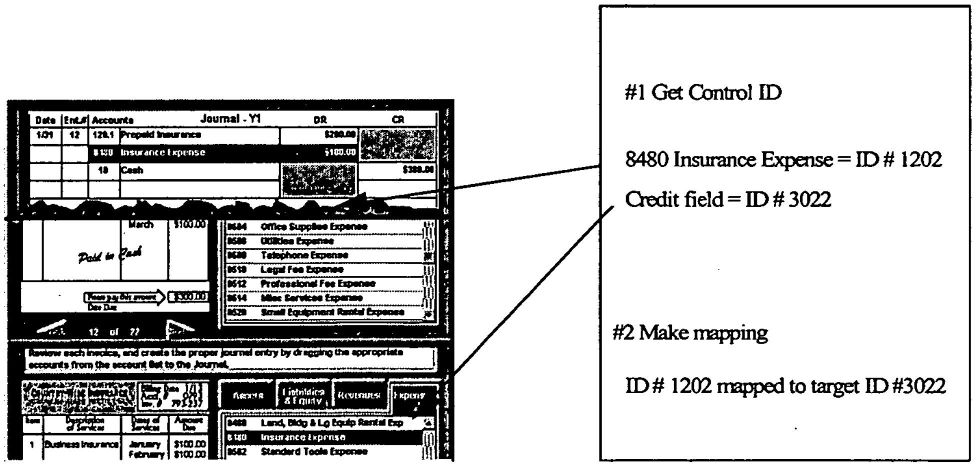
Please pay this amount $300.00
Date Due:

8460	Land, Bldg & Lg Equip Rental Exp
8480	Insurance Expense
8502	Standard Tools Expense
8504	Office Supplies Expense
8506	Utilities Expense
8508	Telephone Expense
8510	Legal Fee Expense
8512	Professional Fee Expense
8514	Misc Services Expense
8520	Small Equipment Rental Expense

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	12	120.1	Prepaid Insurance	$200.00	
		8480	Insurance Expense	$100.00	
		10	Cash		$300.00

FIGURE 29



#1 Get Control ID

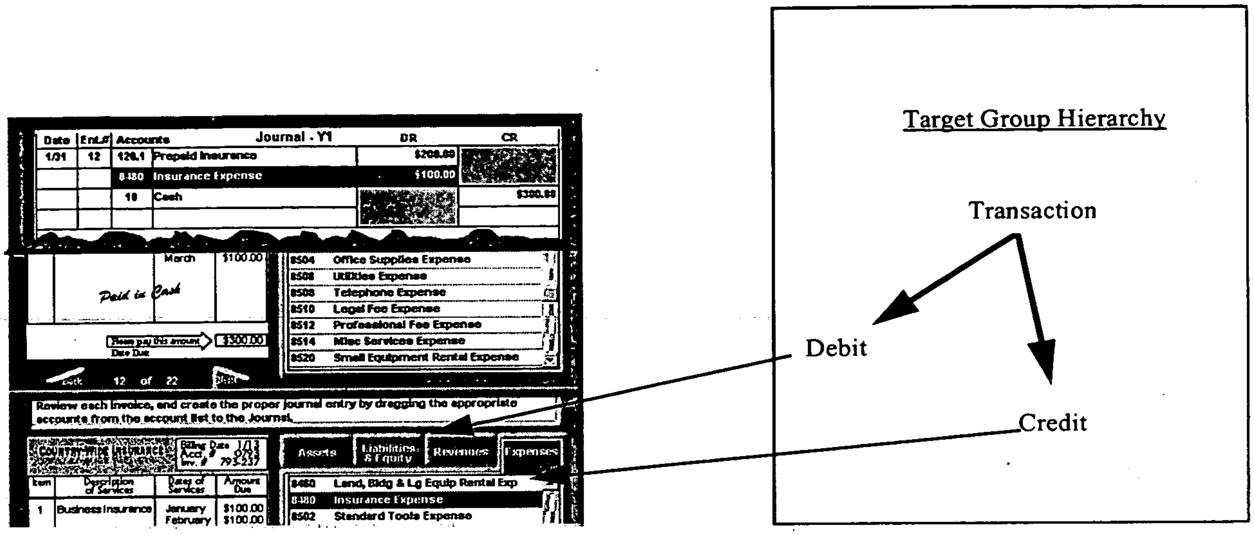
8480 Insurance Expense = ID # 1202

Credit field = ID # 3022

#2 Make mapping

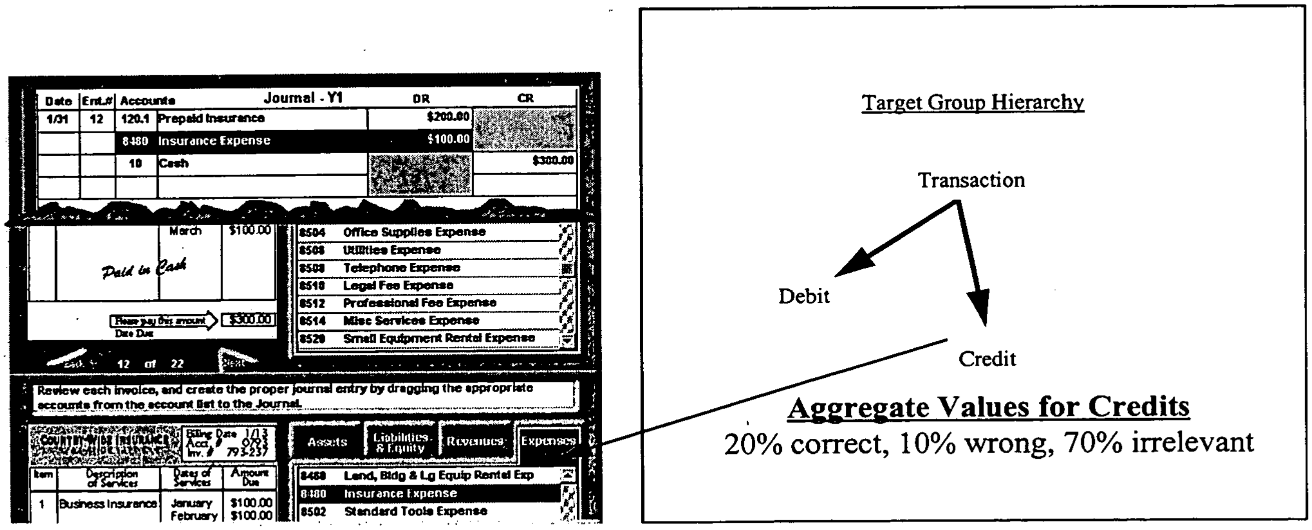
ID # 1202 mapped to target ID #3022

FIGURE 30


Date
Ent.#
Accounts
Journal - Y1
DR
CR
1/31
12
120.1
Prepaid Insurance
$200.00
8480
Insurance Expense
$100.00
10
Cash
$300.00
March
$100.00
Paid in Cash
Please pay this amount
$300.00
Date Due
8504 Office Supplies Expense
8506 Utilities Expense
8508 Telephone Expense
8510 Legal Fee Expense
8512 Professional Fee Expense
8514 Misc Services Expense
8520 Small Equipment Rental Expense
Back
12 of 22
Next
Countrywide Insurance
Billing Date 1/13
Acct. # 0793
Inv. # 793-237
Item
Description of Services
Dates of Services
Amount Due
1
Business Insurance
January
February
$100.00
$100.00
Assets
Liabilities & Equity
Revenues
Expenses
8460 Land, Bldg & Lg Equip Rental Exp
8480 Insurance Expense
8502 Standard Tools Expense
Target Group Hierarchy
Transaction
Debit
Credit

Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

FIGURE 31

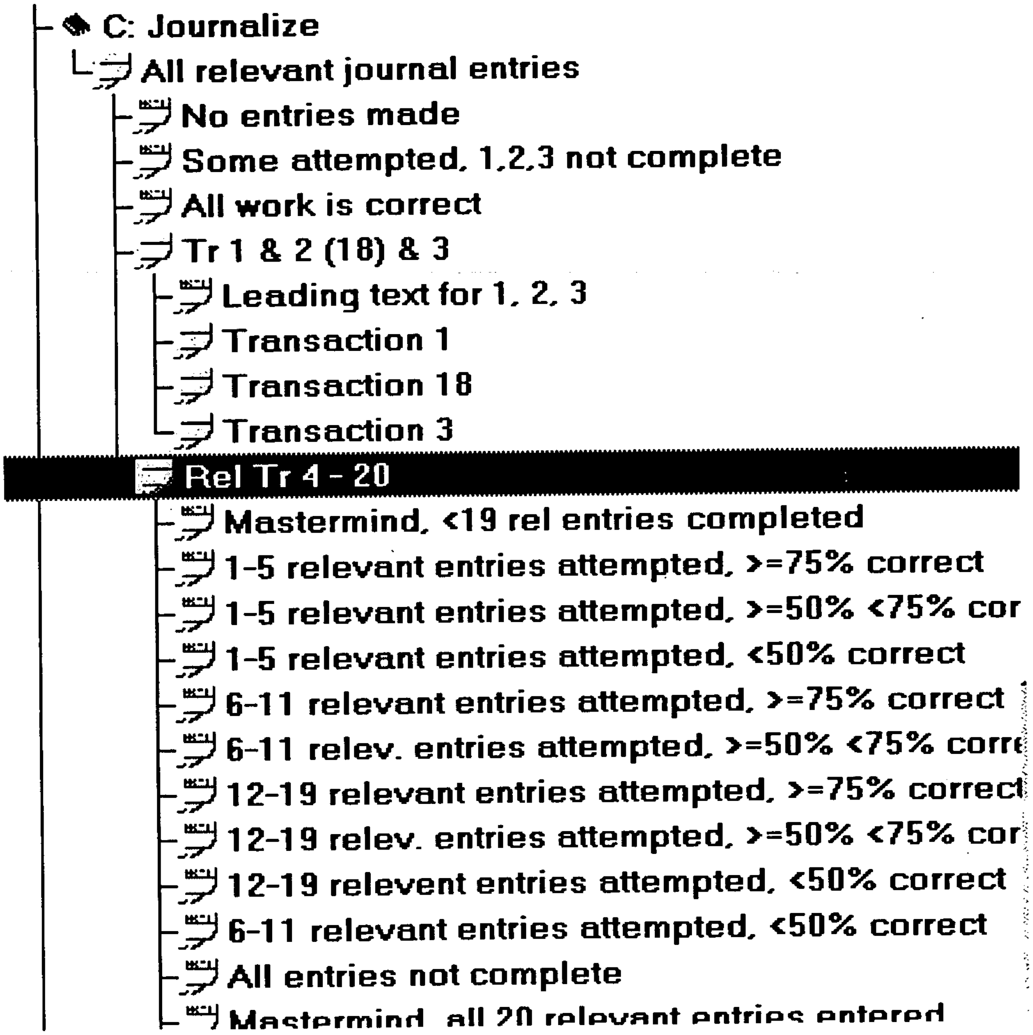

Date
Ent.#
Accounts
Journal - Y1
DR
CR
1/31
12
120.1
Prepaid Insurance
$200.00
8480
Insurance Expense
$100.00
10
Cash
$300.00
March
$100.00
Paid in Cash
Please pay this amount
$300.00
Date Due
8504 Office Supplies Expense
8506 Utilities Expense
8508 Telephone Expense
8510 Legal Fee Expense
8512 Professional Fee Expense
8514 Misc Services Expense
8520 Small Equipment Rental Expense
Back
12 of 22
Next
Countrywide Insurance
Billing Date 1/13
Acct. # 0793
Inv. # 793-237
Item
Description of Services
Dates of Services
Amount Due
1
Business Insurance
January
February
$100.00
$100.00
Assets
Liabilities & Equity
Revenues
Expenses
8460 Land, Bldg & Lg Equip Rental Exp
8480 Insurance Expense
8502 Standard Tools Expense
Target Group Hierarchy
Transaction
Debit
Credit
Aggregate Values for Credits
20% correct, 10% wrong, 70% irrelevant

Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

FIGURE 32

09563426.022801

09934254 . 082201



- C: Journalize
  - All relevant journal entries
    - No entries made
    - Some attempted, 1,2,3 not complete
    - All work is correct
    - Tr 1 & 2 (18) & 3
      - Leading text for 1, 2, 3
      - Transaction 1
      - Transaction 18
      - Transaction 3
    - Rel Tr 4 - 20
      - Mastermind, <19 rel entries completed
      - 1-5 relevant entries attempted, >=75% correct
      - 1-5 relevant entries attempted, >=50% <75% cor
      - 1-5 relevant entries attempted, <50% correct
      - 6-11 relevant entries attempted, >=75% correct
      - 6-11 relev. entries attempted, >=50% <75% corr
      - 12-19 relevant entries attempted, >=75% correct
      - 12-19 relev. entries attempted, >=50% <75% cor
      - 12-19 relevent entries attempted, <50% correct
      - 6-11 relevant entries attempted, <50% correct
      - All entries not complete
      - Mastermind, all 20 relevant entries entered

FIGURE 33

09593494.082201

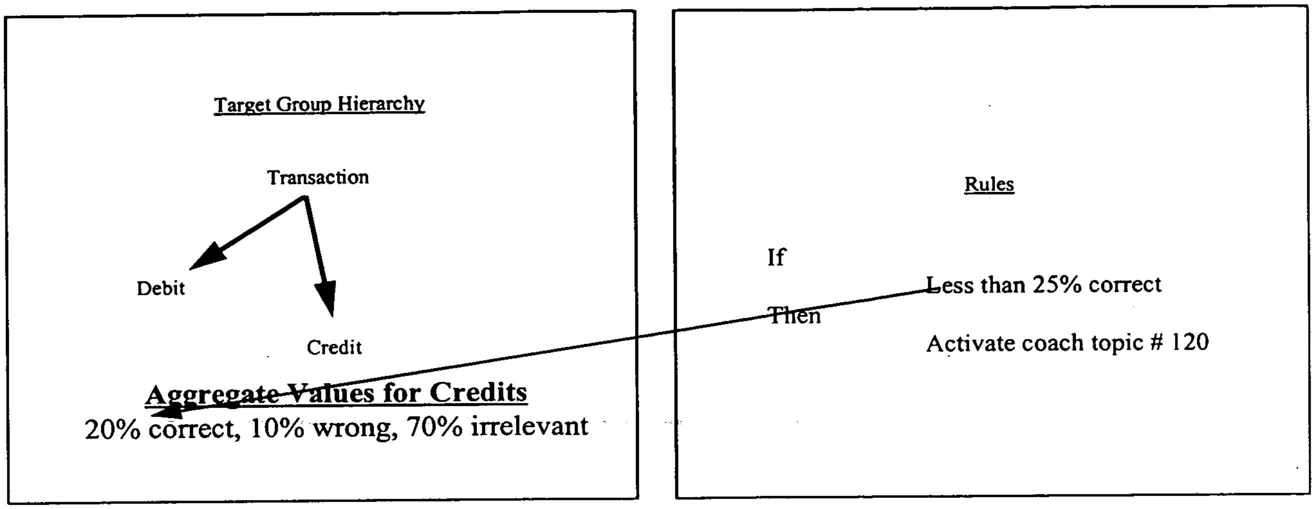
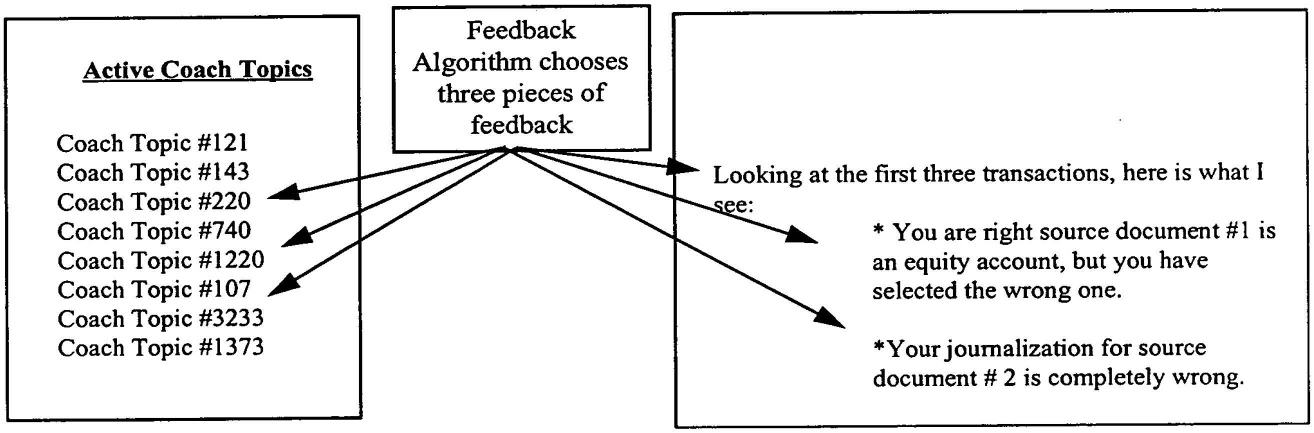

Target Group Hierarchy
Transaction
Debit
Credit
Aggregate Values for Credits
20% correct, 10% wrong, 70% irrelevant
Rules
If
Less than 25% correct
Then
Activate coach topic # 120

FIGURE 34


Active Coach Topics
Coach Topic #121
Coach Topic #143
Coach Topic #220
Coach Topic #740
Coach Topic #1220
Coach Topic #107
Coach Topic #3233
Coach Topic #1373
Feedback Algorithm chooses three pieces of feedback

Looking at the first three transactions, here is what I see:

* You are right source document #1 is an equity account, but you have selected the wrong one.

*Your journalization for source document # 2 is completely wrong.

FIGURE 35

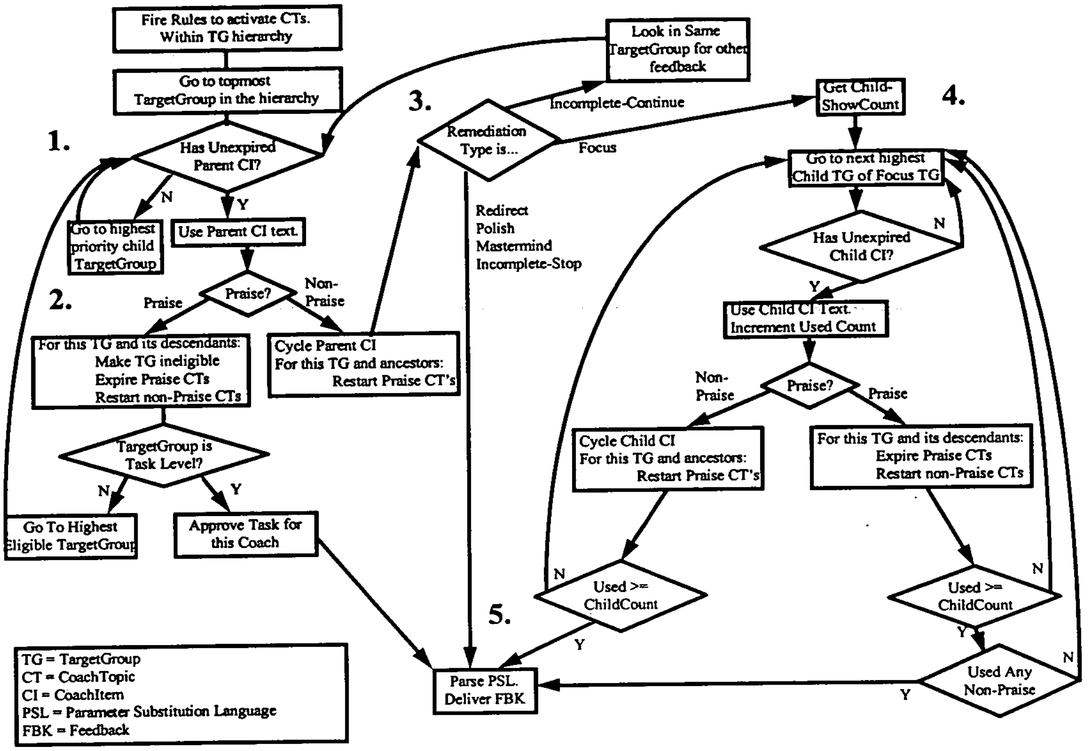
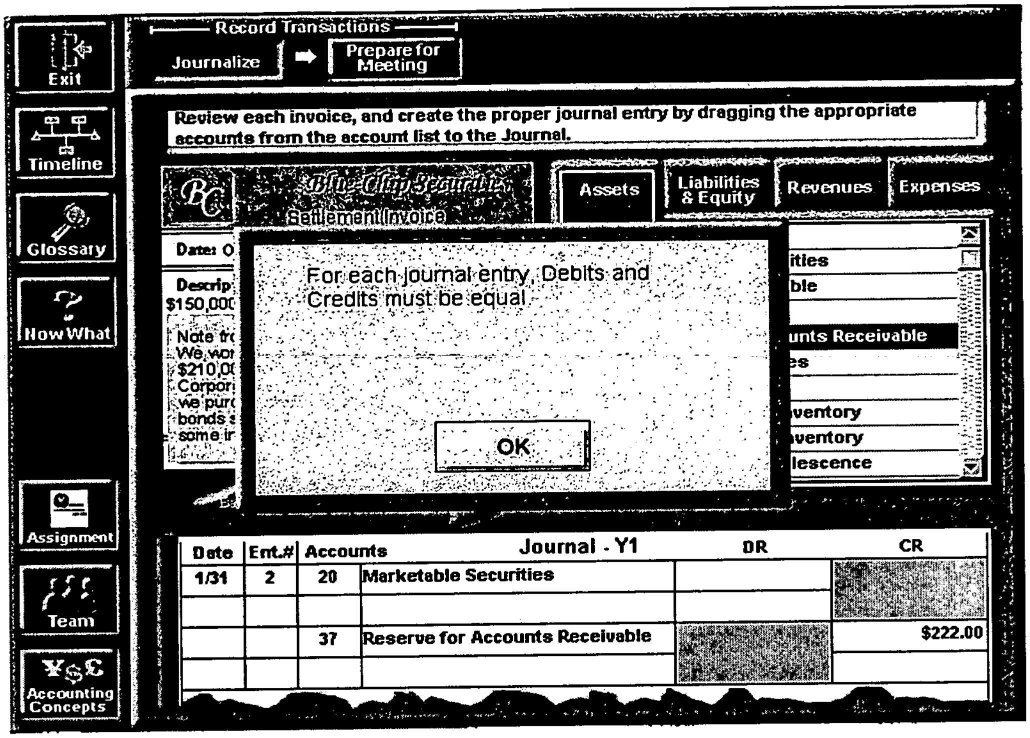

Fire Rules to activate CTs. Within TG hierarchy
Go to topmost TargetGroup in the hierarchy
1.
Has Unexpired Parent CI?
N
Y
Go to highest priority child TargetGroup
Use Parent CI text.
2.
Praise?
Praise
Non-Praise
For this TG and its descendants: Make TG ineligible Expire Praise CTs Restart non-Praise CTs
Cycle Parent CI For this TG and ancestors: Restart Praise CT's
TargetGroup is Task Level?
N
Y
Go To Highest Eligible TargetGroup
Approve Task for this Coach
TG = TargetGroup
CT = CoachTopic
CI = CoachItem
PSL = Parameter Substitution Language
FBK = Feedback
3.
Remediation Type is...
Look in Same TargetGroup for other feedback
Incomplete-Continue
Focus
Redirect
Polish
Mastermind
Incomplete-Stop
4.
Get Child-ShowCount
Go to next highest Child TG of Focus TG
Has Unexpired Child CI?
N
Y
Use Child CI Text. Increment Used Count
Praise?
Non-Praise
Praise
Cycle Child CI For this TG and ancestors: Restart Praise CT's
For this TG and its descendants: Expire Praise CTs Restart non-Praise CTs
N
Used >= ChildCount
Y
5.
Used >= ChildCount
N
Y
Used Any Non-Praise
N
Y
Parse PSL. Deliver FBK

FIGURE 36


Exit
Timeline
Glossary
Now What
Assignment
Team
Accounting Concepts
Record Transactions
Journalize
Prepare for Meeting
Blue Chip Securities
Settlement Invoice
Assets
Liabilities & Equity
Revenues
Expenses
OK

Review each invoice, and create the proper journal entry by dragging the appropriate accounts from the account list to the Journal.

For each journal entry, Debits and Credits must be equal

Journal - Y1

Date	Ent.#	Accounts		DR	CR
1/31	2	20	Marketable Securities		
		37	Reserve for Accounts Receivable		$222.00

FIGURE 37

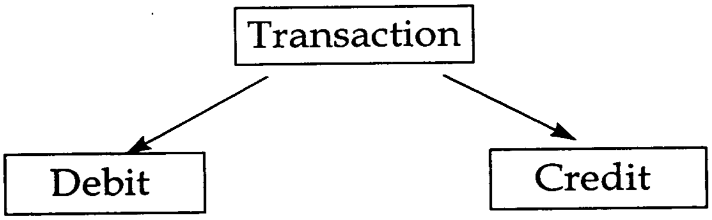

Transaction
Debit
Credit

FIGURE 38

09934924.082201

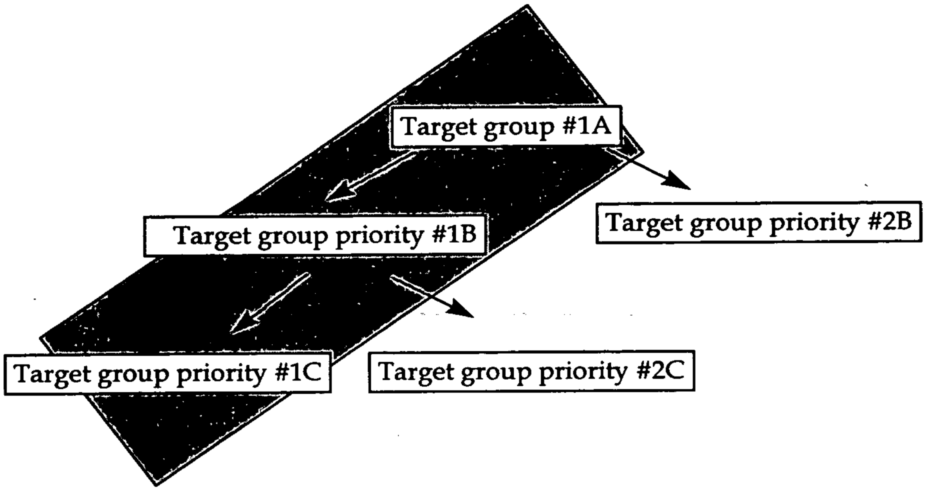

Target group #1A
Target group priority #1B
Target group priority #2B
Target group priority #1C
Target group priority #2C

FIGURE 39

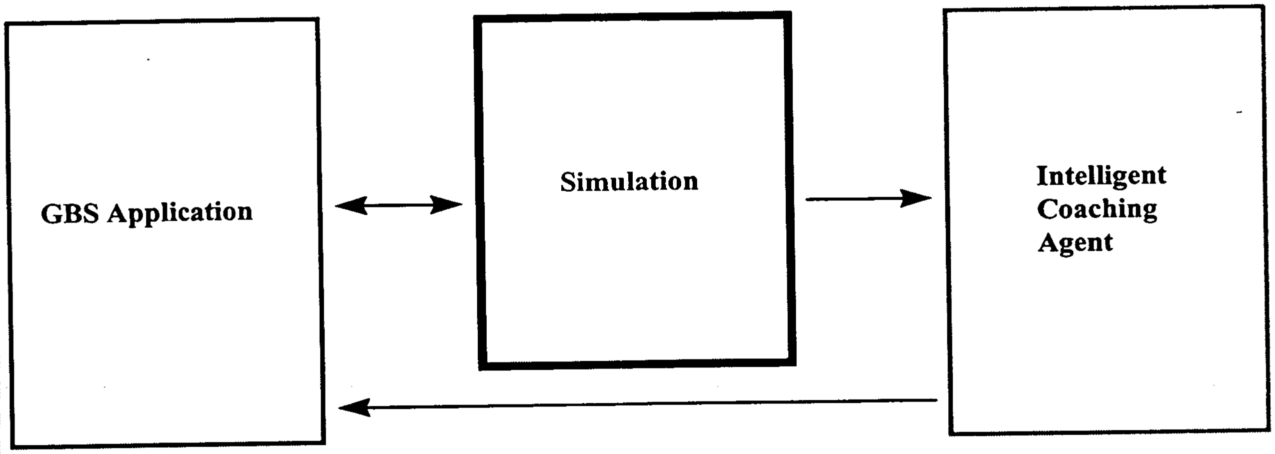

GBS Application
Simulation
Intelligent Coaching Agent

FIGURE 40

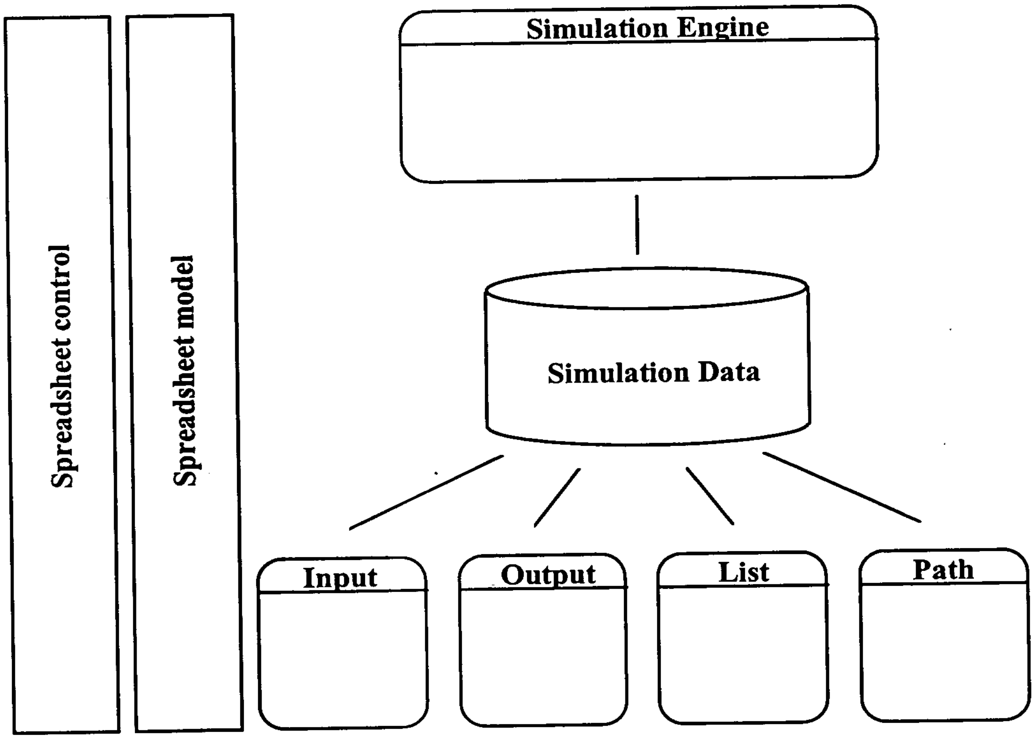
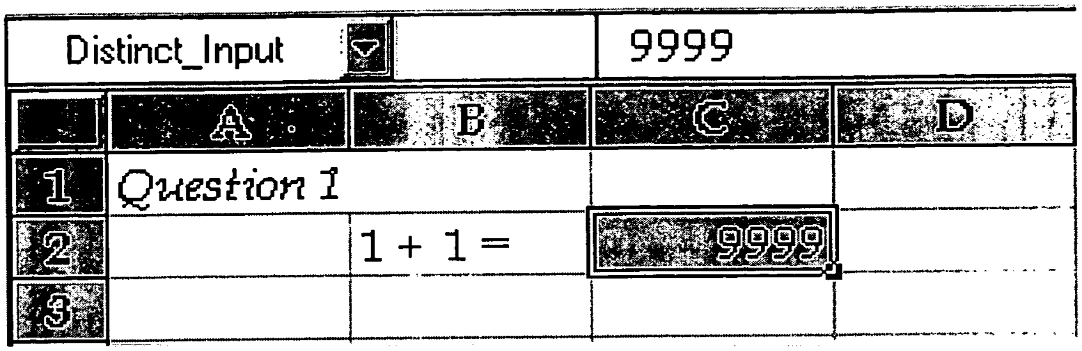
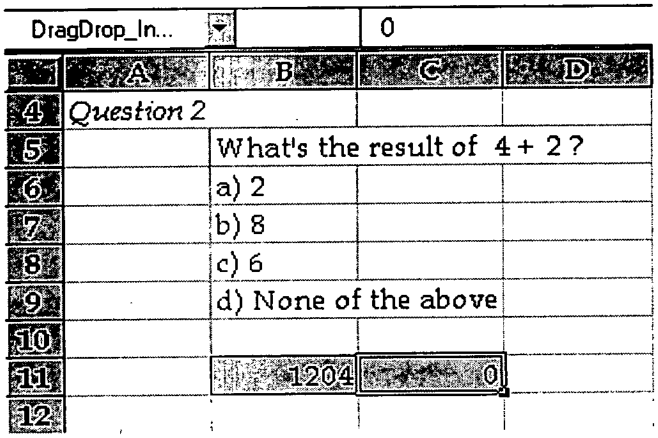

Spreadsheet control
Spreadsheet model
Simulation Engine
Simulation Data
Input
Output
List
Path

FIGURE 41


Distinct_Input 9999

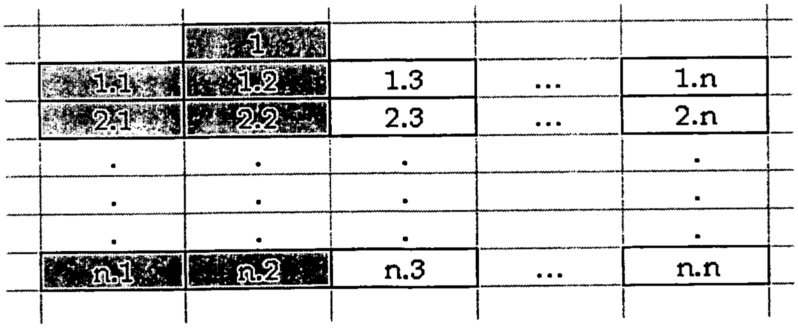
	A	B	C	D
1	Question 1			
2		1 + 1 =	9999	
3				

FIGURE 42


DragDrop_In... 0

	A	B	C	D
4	Question 2			
5		What's the result of 4 + 2 ?		
6		a) 2		
7		b) 8		
8		c) 6		
9		d) None of the above		
10				
11		1204	0	
12				

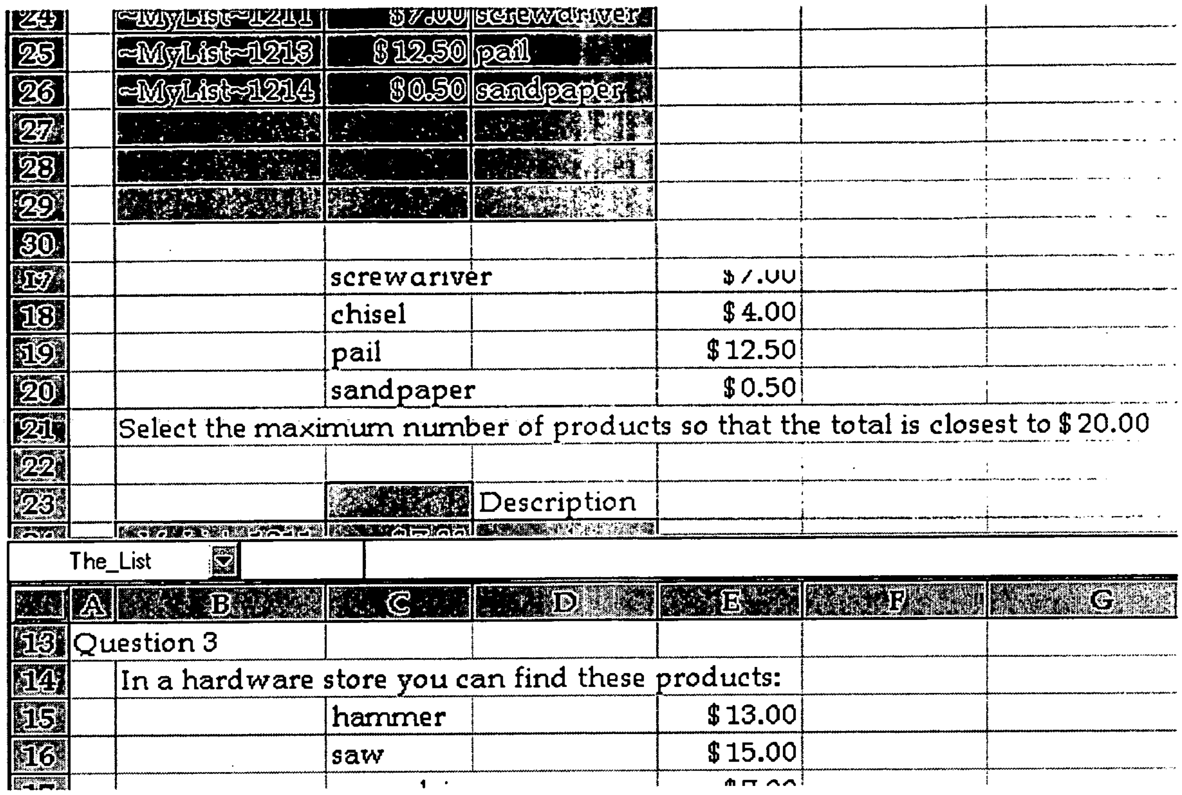
FIGURE 43



	1			
1.1	1.2	1.3	...	1.n
2.1	2.2	2.3	...	2.n
.	.	.		.
.	.	.		.
.	.	.		.
n.1	n.2	n.3	...	n.n

FIGURE 44

10238044.082201



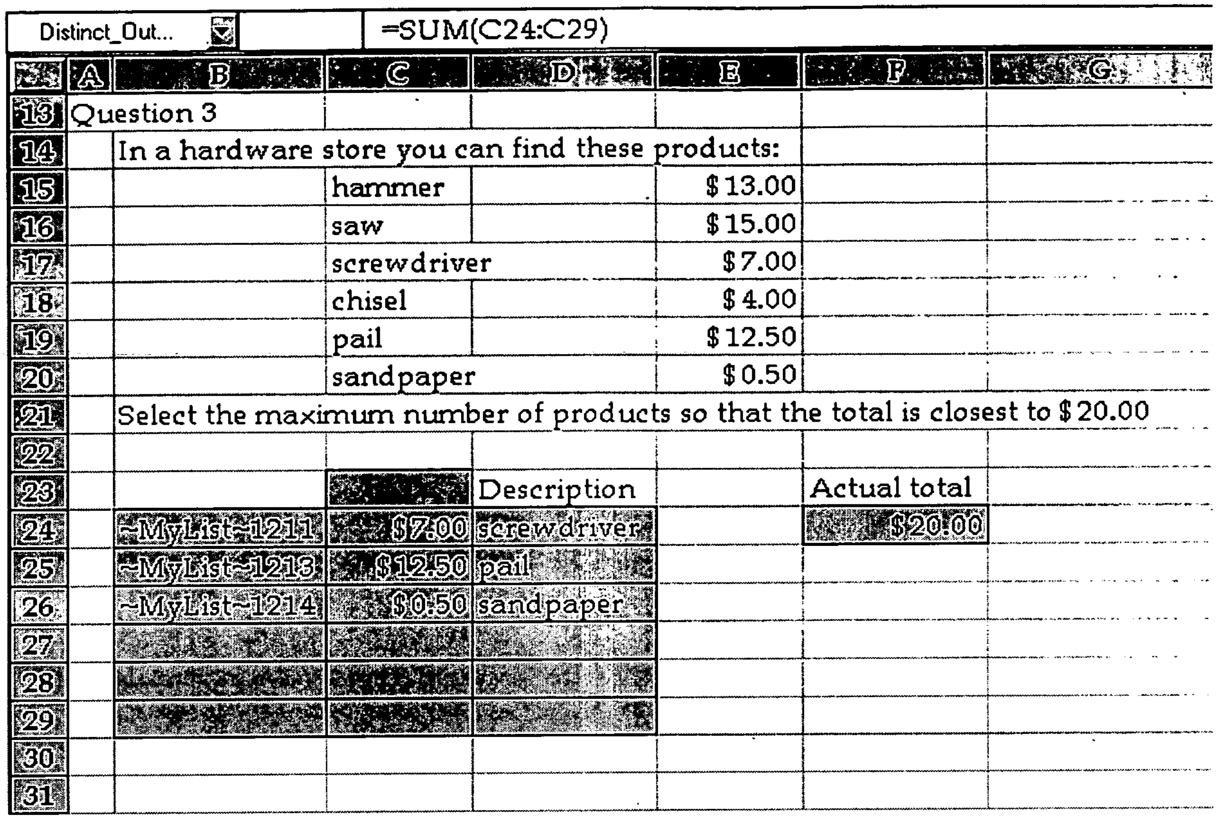
	A	B	C	D	E	F	G
24		~MyList~1211	$7.00	screwdriver			
25		~MyList~1213	$12.50	pail			
26		~MyList~1214	$0.50	sandpaper			
27							
28							
29							
30							
17			screwdriver		$7.00		
18			chisel		$4.00		
19			pail		$12.50		
20			sandpaper		$0.50		
21		Select the maximum number of products so that the total is closest to $20.00					
22							
23				Description			

The_List

	A	B	C	D	E	F	G
13	Question 3						
14		In a hardware store you can find these products:					
15			hammer		$13.00		
16			saw		$15.00		

FIGURE 45

09634264.102201



Distinct_Out... =SUM(C24:C29)

	A	B	C	D	E	F	G
13	Question 3						
14		In a hardware store you can find these products:					
15			hammer		$13.00		
16			saw		$15.00		
17			screwdriver		$7.00		
18			chisel		$4.00		
19			pail		$12.50		
20			sandpaper		$0.50		
21		Select the maximum number of products so that the total is closest to $20.00					
22							
23				Description		Actual total	
24		~MyList~1211	$7.00	screwdriver		$20.00	
25		~MyList~1213	$12.50	pail			
26		~MyList~1214	$0.50	sandpaper			
27							
28							
29							
30							
31							

FIGURE 46

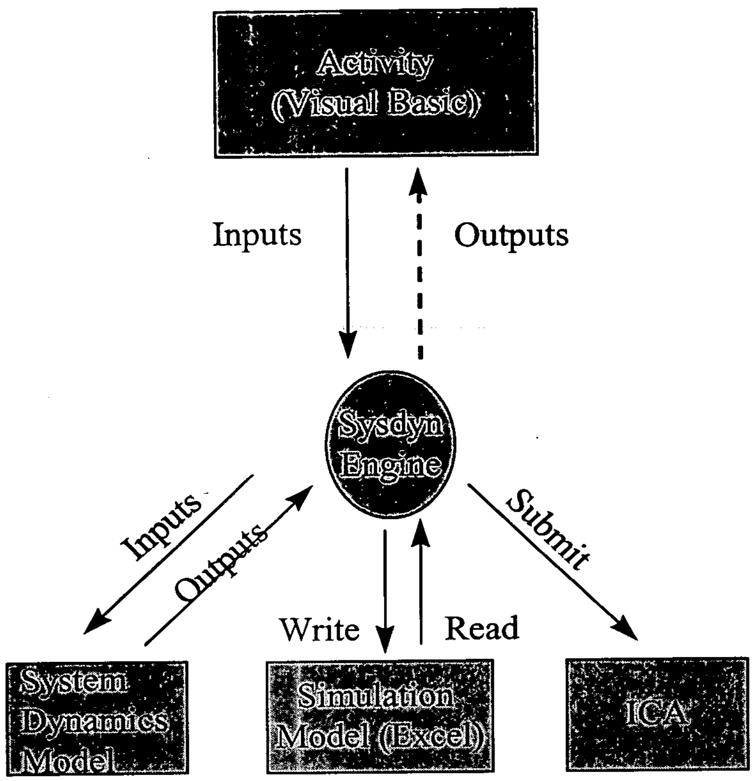

Activity
(Visual Basic)
Inputs
Outputs
Sysdyn Engine
Inputs
Outputs
Submit
Write
Read
System Dynamics Model
Simulation Model (Excel)
ICA

FIGURE 47

09534924.022801

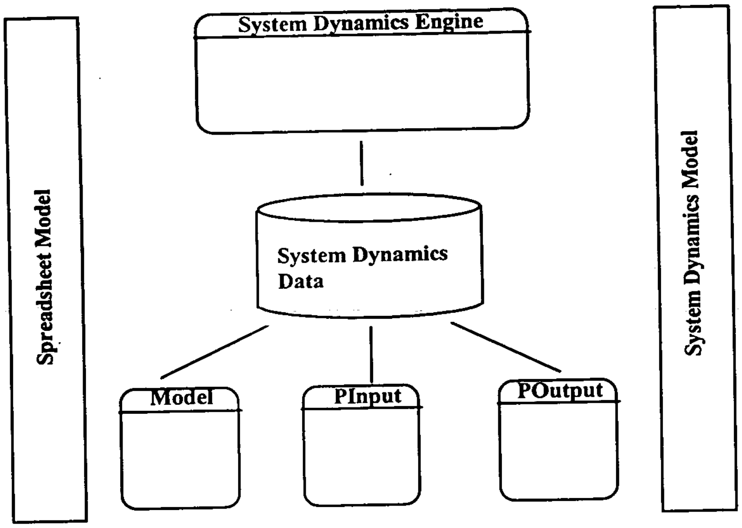
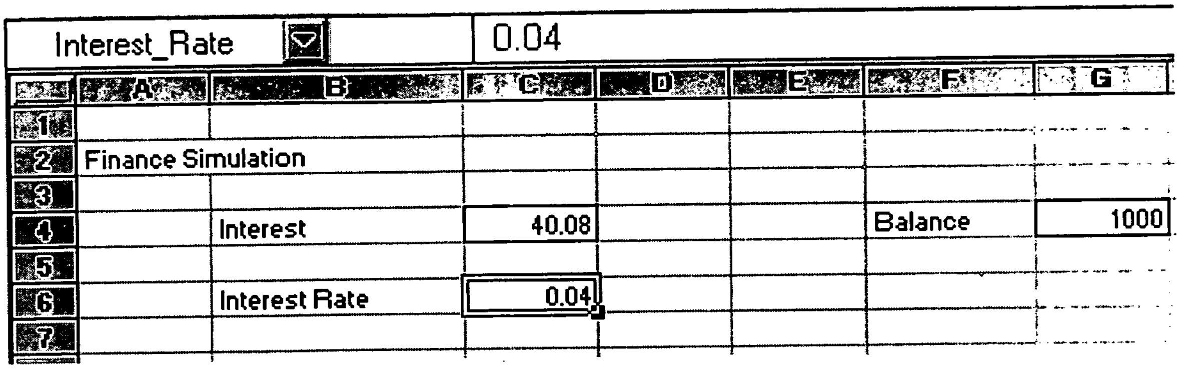

System Dynamics Engine
Spreadsheet Model
System Dynamics Data
System Dynamics Model
Model
PInput
POutput

FIGURE 48

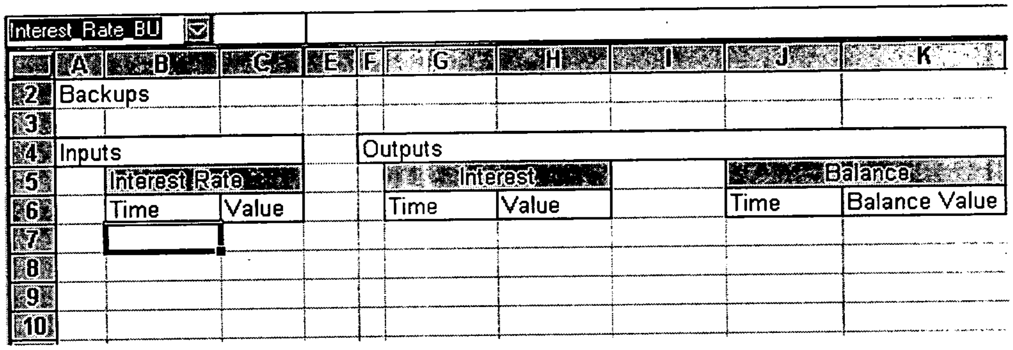
09654524 .082201



Interest_Rate | 0.04

	A	B	C	D	E	F	G
1							
2	Finance Simulation						
3							
4		Interest	40.08			Balance	1000
5							
6		Interest Rate	0.04				
7							

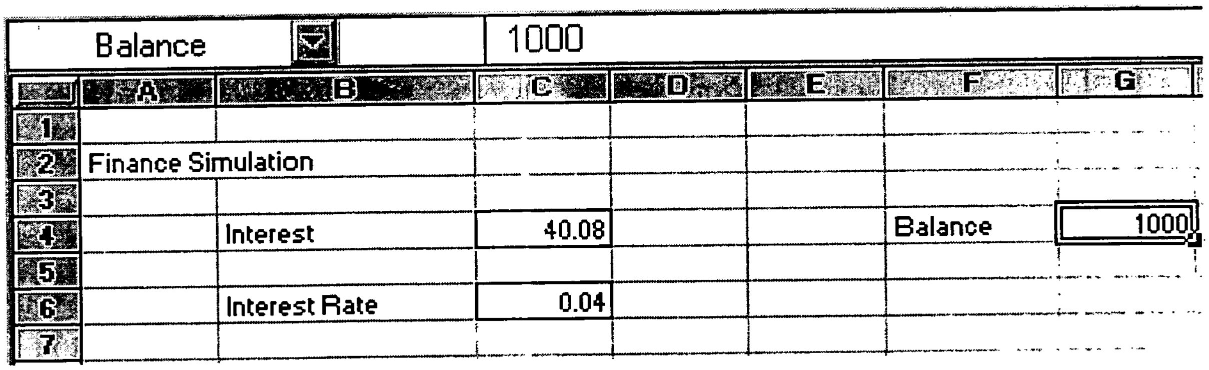
FIGURE 49



Interest_Rate_BU

	A	B	C	E	F	G	H	I	J	K
2	Backups									
3										
4	Inputs				Outputs					
5		Interest Rate				Interest			Balance	
6		Time	Value			Time	Value		Time	Balance Value
7										
8										
9										
10										

FIGURE 50



Balance | 1000

	A	B	C	D	E	F	G
1							
2	Finance Simulation						
3							
4		Interest	40.08			Balance	1000
5							
6		Interest Rate	0.04				
7							

FIGURE 51

09534924 . 032801

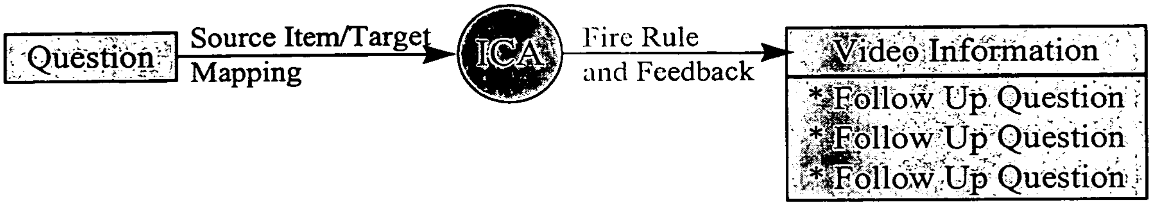

Question
Source Item/Target Mapping
ICA
Fire Rule and Feedback
Video Information
* Follow Up Question
* Follow Up Question
* Follow Up Question

FIGURE 52

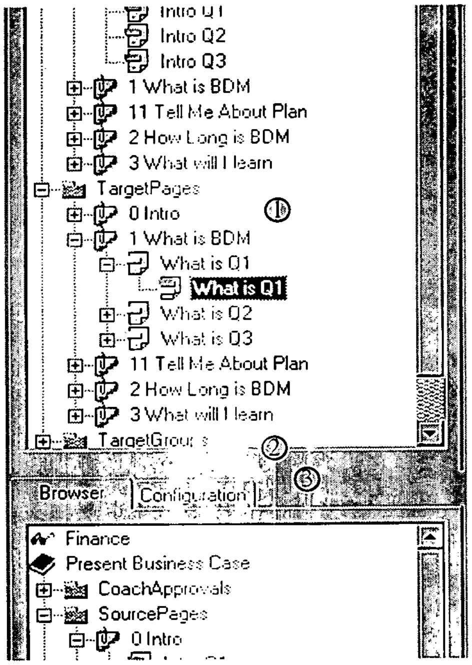

Intro Q1
Intro Q2
Intro Q3
1 What is BDM
11 Tell Me About Plan
2 How Long is BDM
3 What will I learn
TargetPages
①
0 Intro
1 What is BDM
What is Q1
What is Q1
What is Q2
What is Q3
11 Tell Me About Plan
2 How Long is BDM
3 What will I learn
TargetGroups
②
③
Browser
Configuration
Finance
Present Business Case
CoachApprovals
SourcePages
0 Intro

FIGURE 53

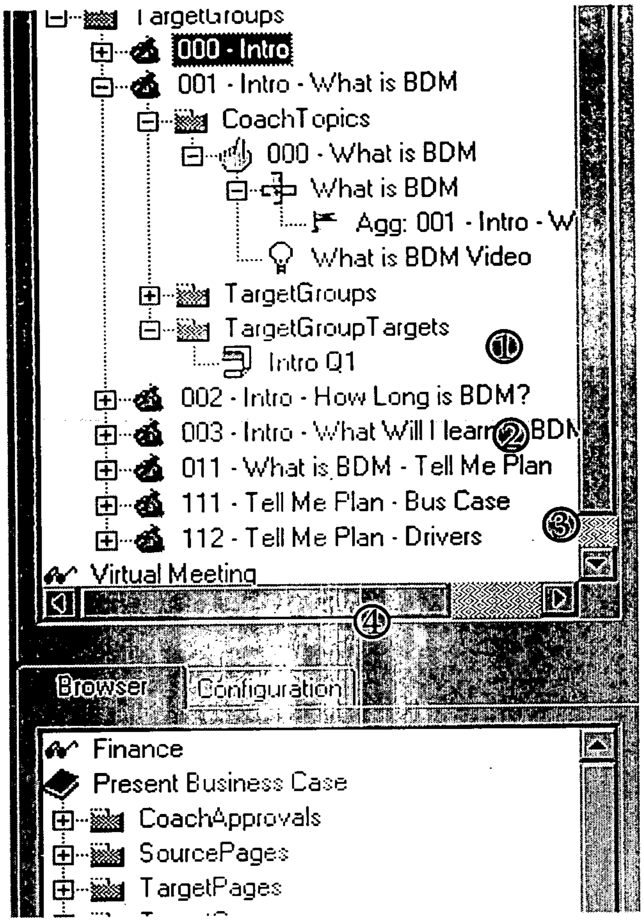
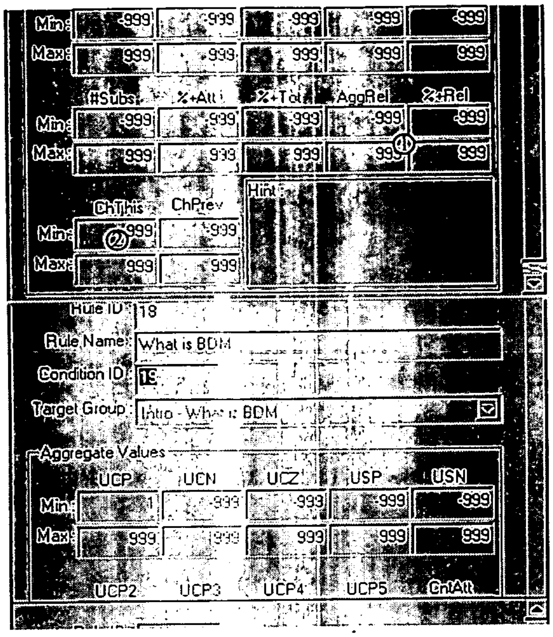

TargetGroups
000 - Intro
001 - Intro - What is BDM
CoachTopics
000 - What is BDM
What is BDM
Agg: 001 - Intro - W
What is BDM Video
TargetGroups
TargetGroupTargets
①
Intro Q1
002 - Intro - How Long is BDM?
003 - Intro - What Will I learn ② BDM
011 - What is BDM - Tell Me Plan
111 - Tell Me Plan - Bus Case
③
112 - Tell Me Plan - Drivers
Virtual Meeting
④
Browser
Configuration
Finance
Present Business Case
CoachApprovals
SourcePages
TargetPages

FIGURE 54

09634624.082201



Min:	-999	-999	-999	-999	-999
Max:	999	999	999	999	999
	#Subs	%+Att	%+Tot	AggRel	%+Rel
Min:	-999	-999	-999	-999	-999
Max:	999	999	999	999	999

	ChThis	ChPrev
Min:	-999	-999
Max:	999	999

Rule ID: 18

Rule Name: What is BDM

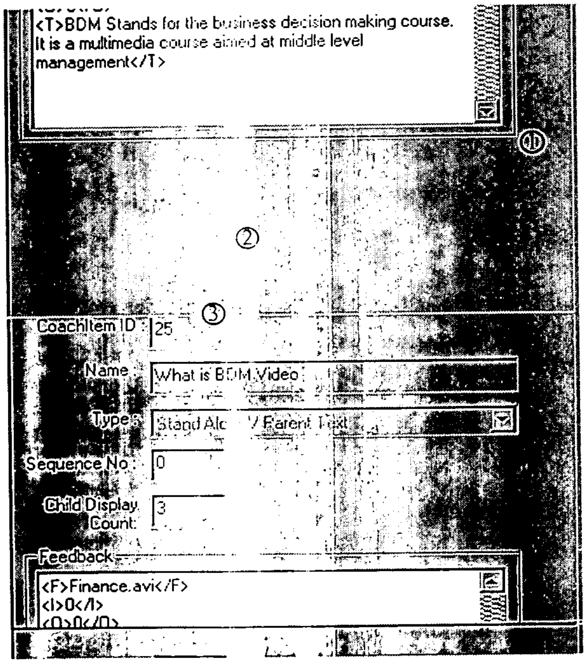
Condition ID: 19

Target Group: Intro - What is BDM

Aggregate Values

	UCP	UCN	UCZ	USP	USN
Min:	1	-999	-999	-999	-999
Max:	999	999	999	999	999
	UCP2	UCP3	UCP4	UCP5	CntAtt

FIGURE 55



<T>BDM Stands for the business decision making course. It is a multimedia course aimed at middle level management</T>

CoachItem ID: 25

Name: What is BDM Video

Type: Stand Alone / Parent Text

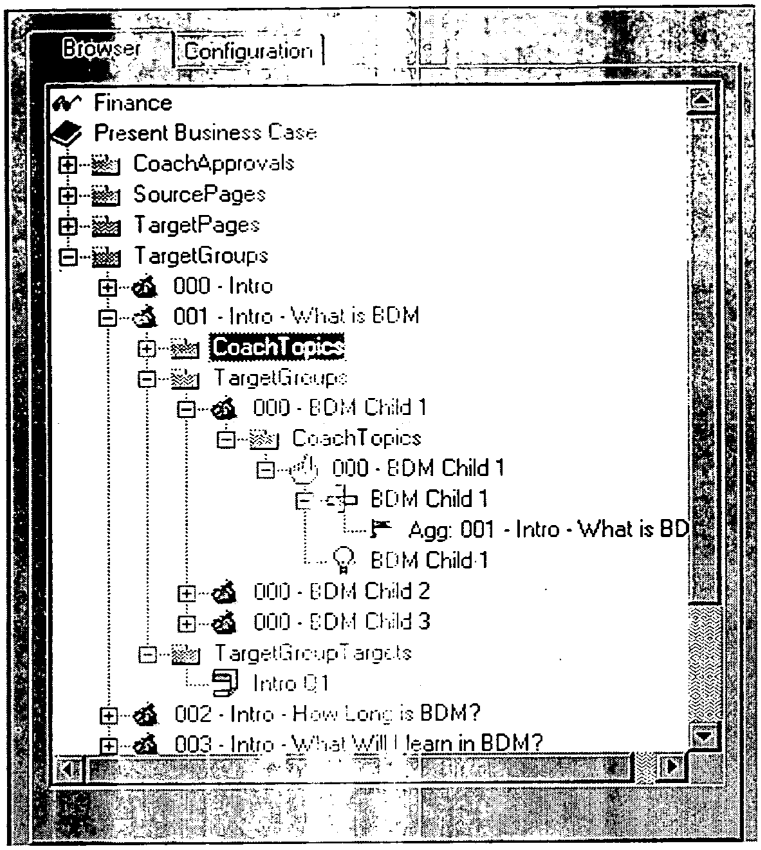
Sequence No: 0

Child Display Count: 3

Feedback

<F>Finance.avi</F>
<I>0</I>
<O>0</O>

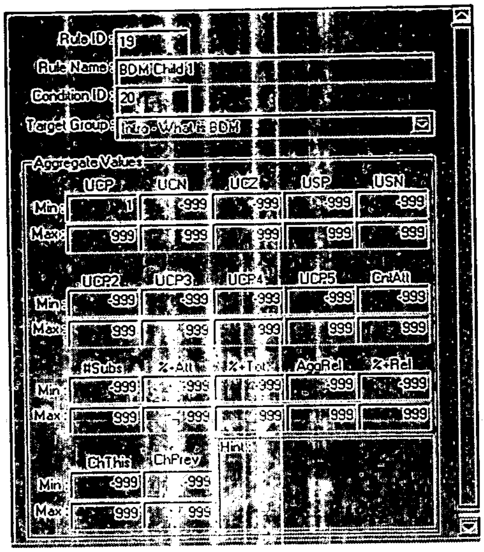
FIGURE 56



- Finance
- Present Business Case
  - CoachApprovals
  - SourcePages
  - TargetPages
  - TargetGroups
    - 000 - Intro
    - 001 - Intro - What is BDM
      - CoachTopics
      - TargetGroups
        - 000 - BDM Child 1
          - CoachTopics
            - 000 - BDM Child 1
              - BDM Child 1
                - Agg: 001 - Intro - What is BD
              - BDM Child 1
        - 000 - BDM Child 2
        - 000 - BDM Child 3
      - TargetGroupTargets
        - Intro 01
    - 002 - Intro - How Long is BDM?
    - 003 - Intro - What Will I learn in BDM?

FIGURE 57

09543924 .022801



Rule ID: 19

Rule Name: BDM Child 1

Condition ID: 20

Target Group: Intro - What is BDM

Aggregate Values

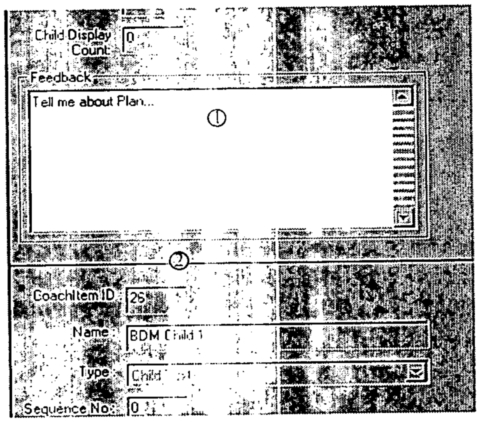
	UCP	UCN	UCZ	USP	USN
Min:	1	-999	-999	-999	-999
Max:	999	999	999	999	999

	UCP2	UCP3	UCP4	UCP5	CntAll
Min:	-999	-999	-999	-999	-999
Max:	999	999	999	999	999

	#Subs	%-Att	%+Tot	AggRel	%+Rel
Min:	-999	-999	-999	-999	-999
Max:	999	999	999	999	999

	ChThis	ChPrev
Min:	-999	-999
Max:	999	999

FIGURE 58



Child Display Count: 0

Feedback

Tell me about Plan...

CoachItem ID: 26

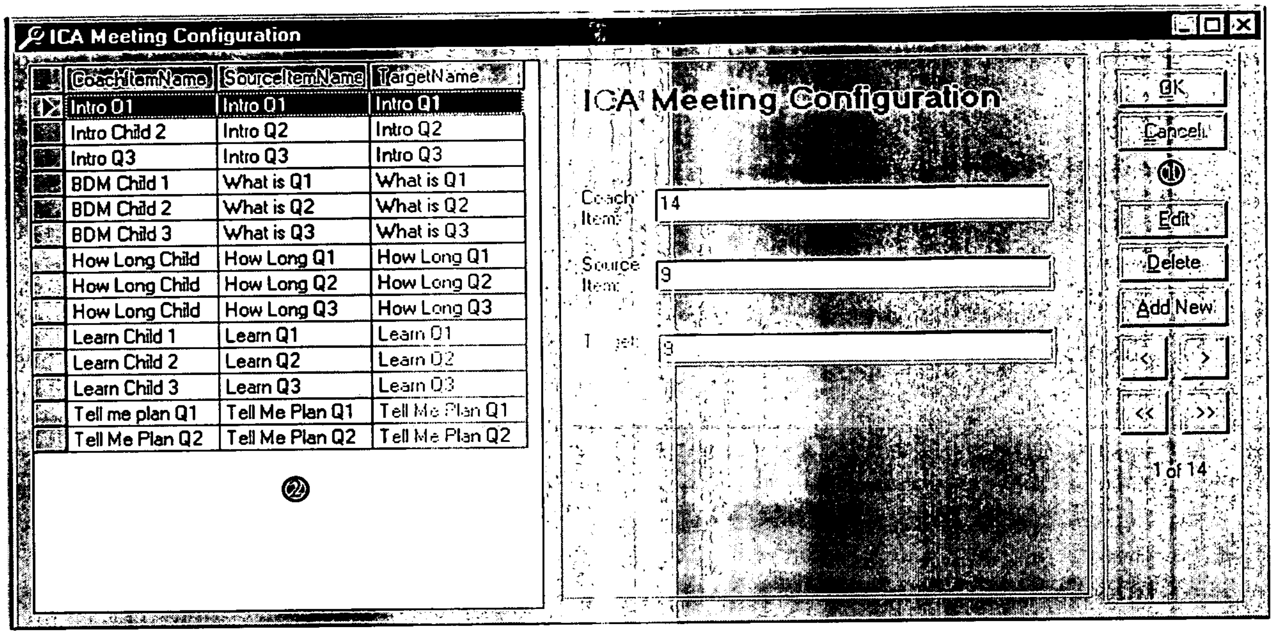
Name: BDM Child 1

Type: Child

Sequence No: 0

FIGURE 59

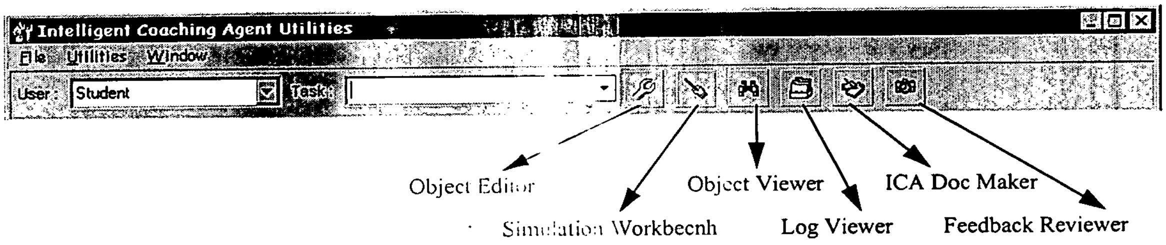
09934924.082201


ICA Meeting Configuration
ICA Meeting Configuration
OK
Cancel
①
Edit
Delete
Add New
<
>
<<
>>
②

CoachItemName	SourceItemName	TargetName
Intro Q1	Intro Q1	Intro Q1
Intro Child 2	Intro Q2	Intro Q2
Intro Q3	Intro Q3	Intro Q3
BDM Child 1	What is Q1	What is Q1
BDM Child 2	What is Q2	What is Q2
BDM Child 3	What is Q3	What is Q3
How Long Child	How Long Q1	How Long Q1
How Long Child	How Long Q2	How Long Q2
How Long Child	How Long Q3	How Long Q3
Learn Child 1	Learn Q1	Learn Q1
Learn Child 2	Learn Q2	Learn Q2
Learn Child 3	Learn Q3	Learn Q3
Tell me plan Q1	Tell Me Plan Q1	Tell Me Plan Q1
Tell Me Plan Q2	Tell Me Plan Q2	Tell Me Plan Q2

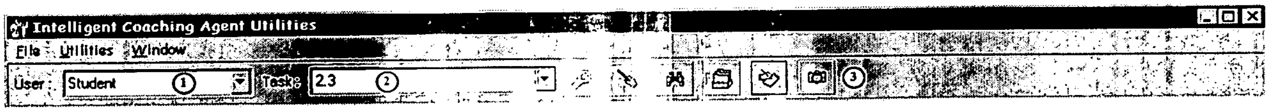
Coach Item: 14
Source Item: 9
Target: 9
1 of 14

FIGURE 60


Intelligent Coaching Agent Utilities
File
Utilities
Window
Object Editor
Simulation Workbecnh
Object Viewer
Log Viewer
ICA Doc Maker
Feedback Reviewer

User: Student
Task:

FIGURE 61


Intelligent Coaching Agent Utilities
File
Utilities
Window
①
②
③

User: Student
Task: 2.3

FIGURE 62

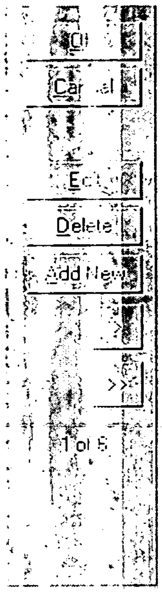
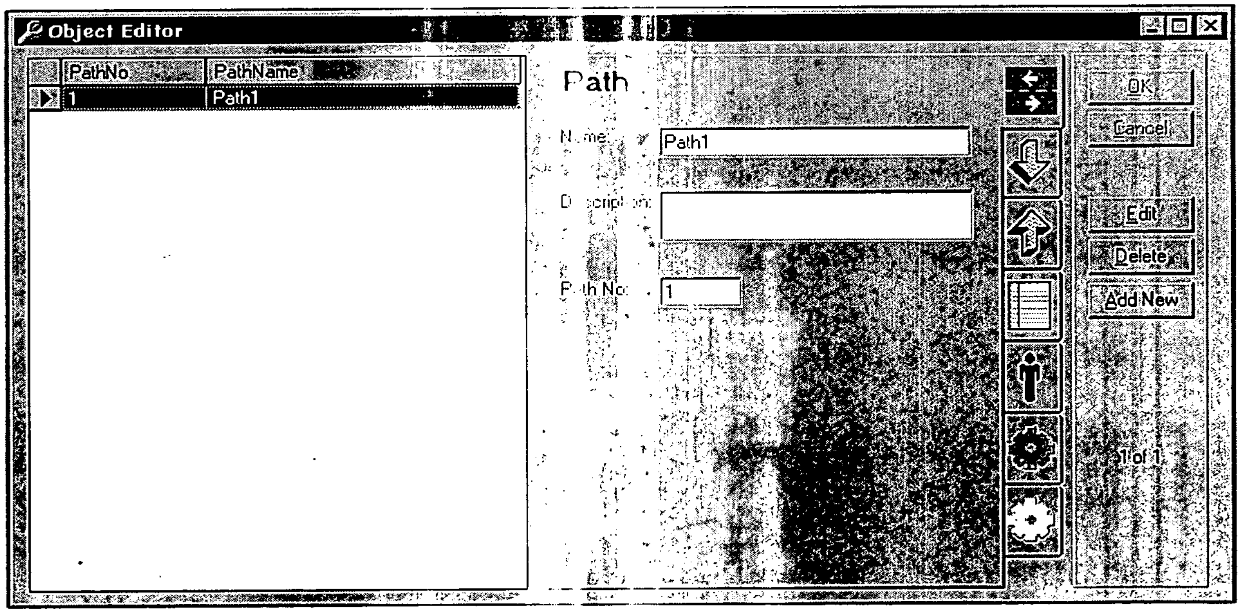

OK
Cancel
Edit
Delete
Add New
>
>>
1 of 5

FIGURE 63


Object Editor
OK
Cancel
Edit
Delete
Add New
1 of 1

Path

PathNo	PathName
1	Path1

Name: Path1

Description:

Path No: 1

FIGURE 64

09634524.082201

09934254.022801

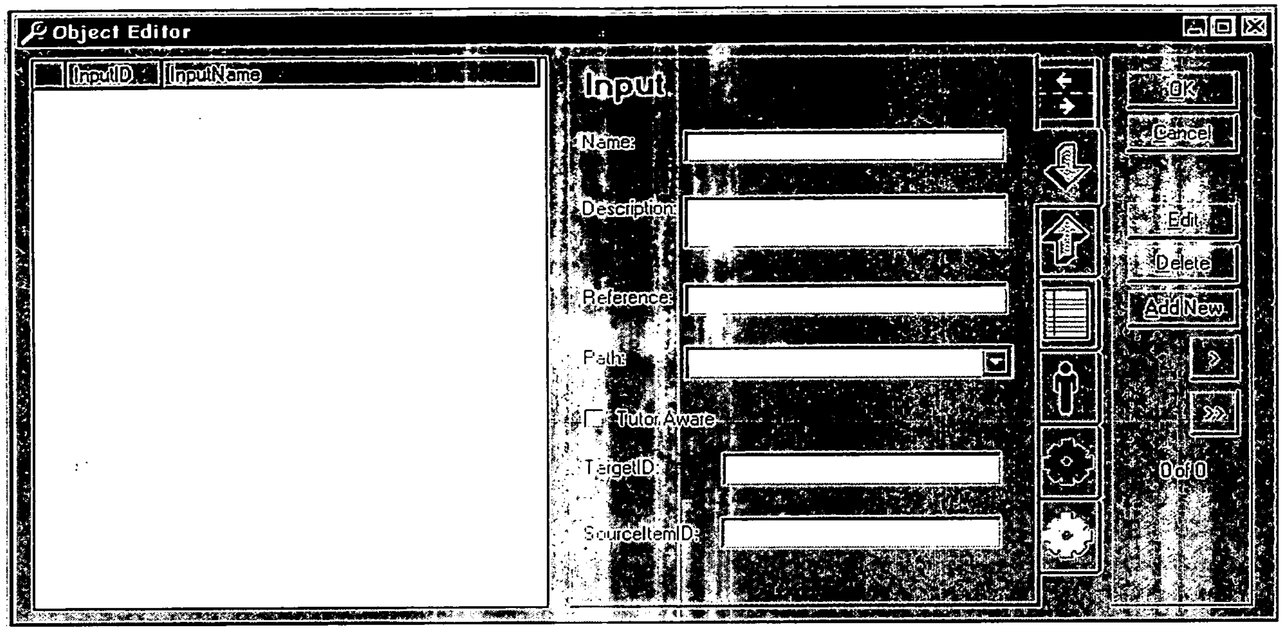

Object Editor
InputID
InputName
Input
Name:
Description:
Reference:
Path:
☐ Tutor Aware
TargetID:
SourceItemID:
OK
Cancel
Edit
Delete
Add New
>
>>
0 of 0

FIGURE 65

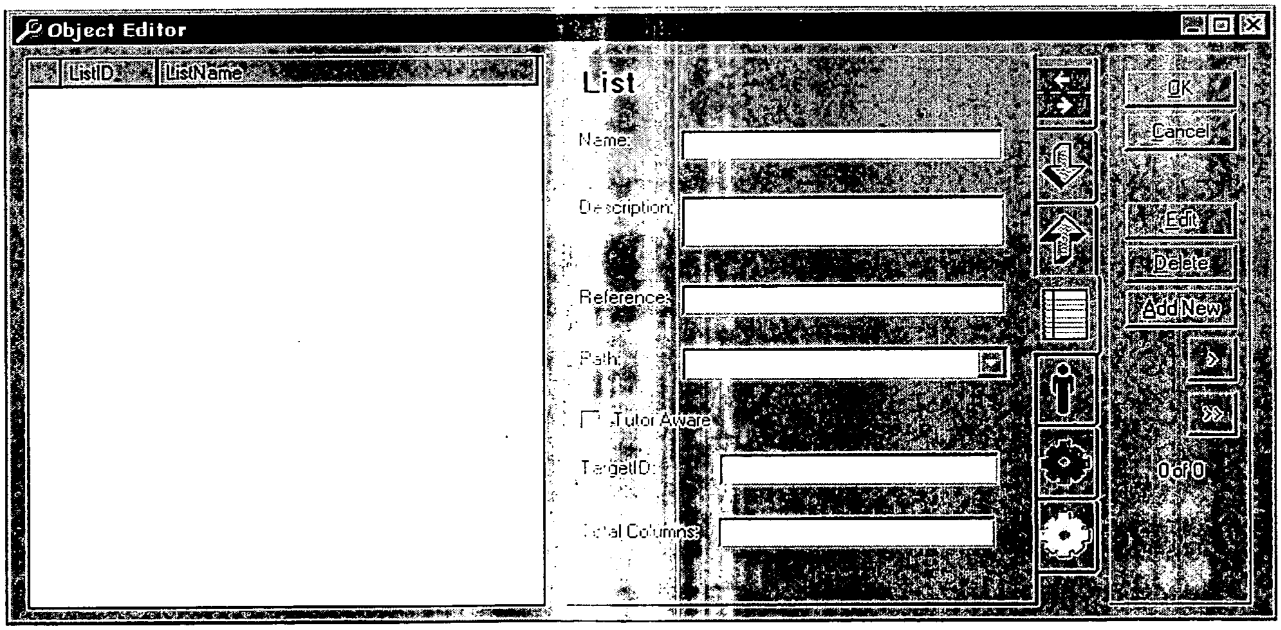
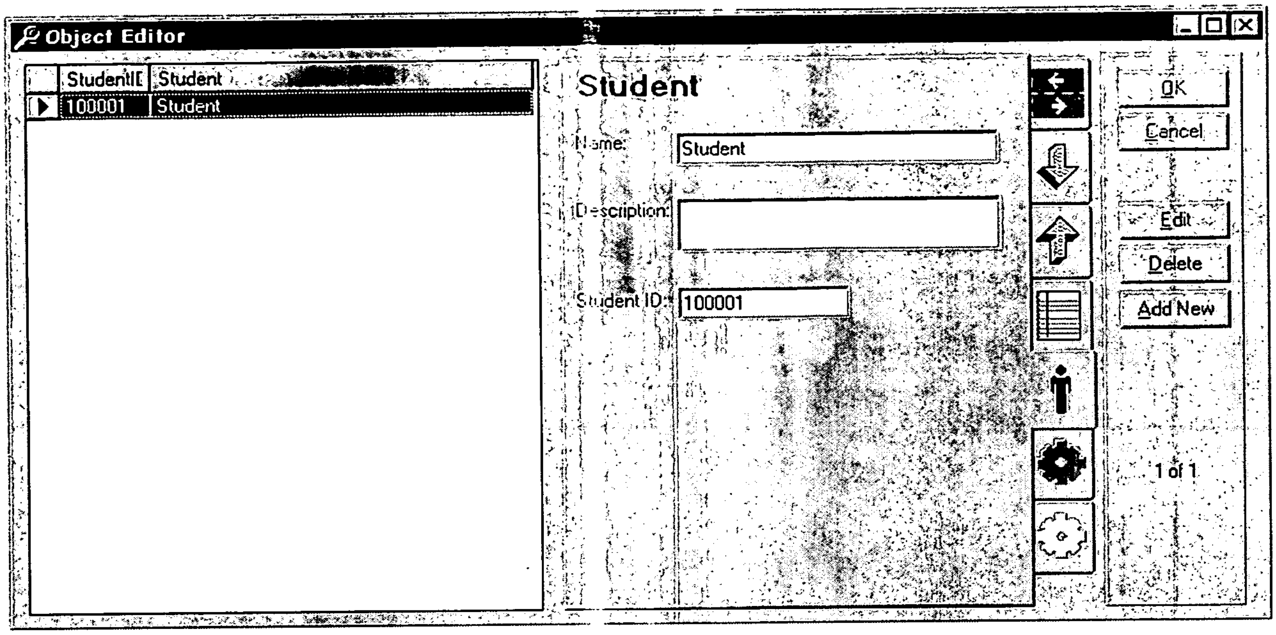

Object Editor
ListID
ListName
List
Name:
Description:
Reference:
Path:
☐ Tutor Aware
TargetID:
Total Columns:
OK
Cancel
Edit
Delete
Add New
>
>>
0 of 0

FIGURE 66

09634624.082201


Object Editor
Student
OK
Cancel
Edit
Delete
Add New
1 of 1

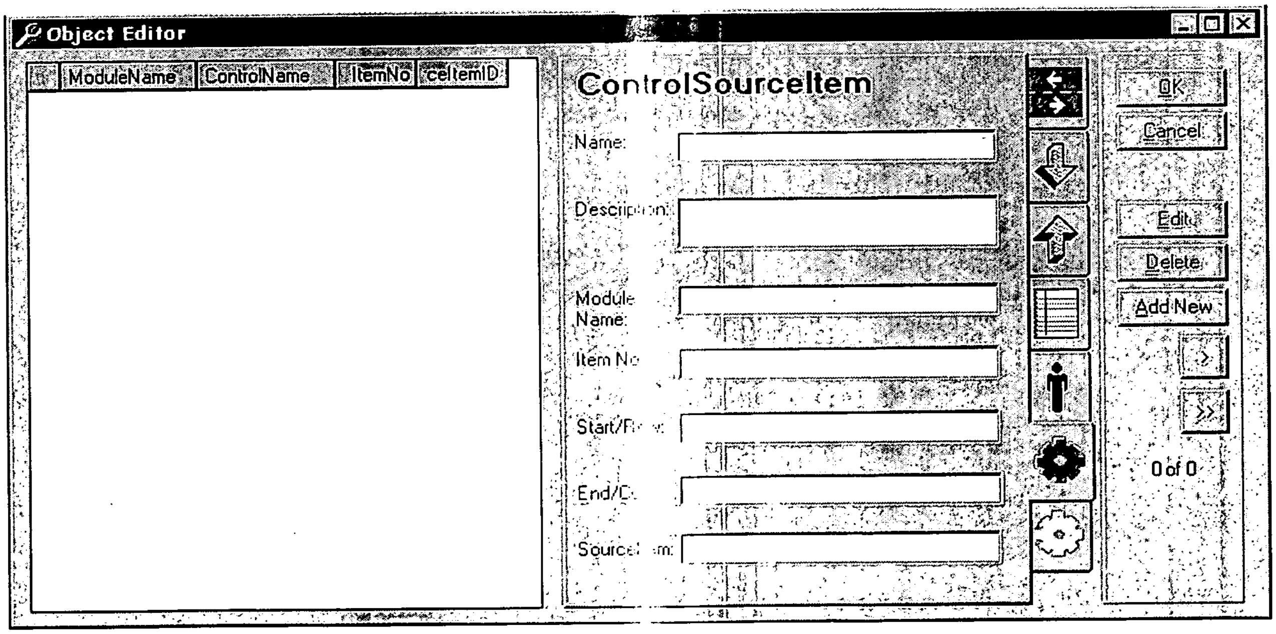
StudentID	Student
100001	Student

Name: Student

Description:

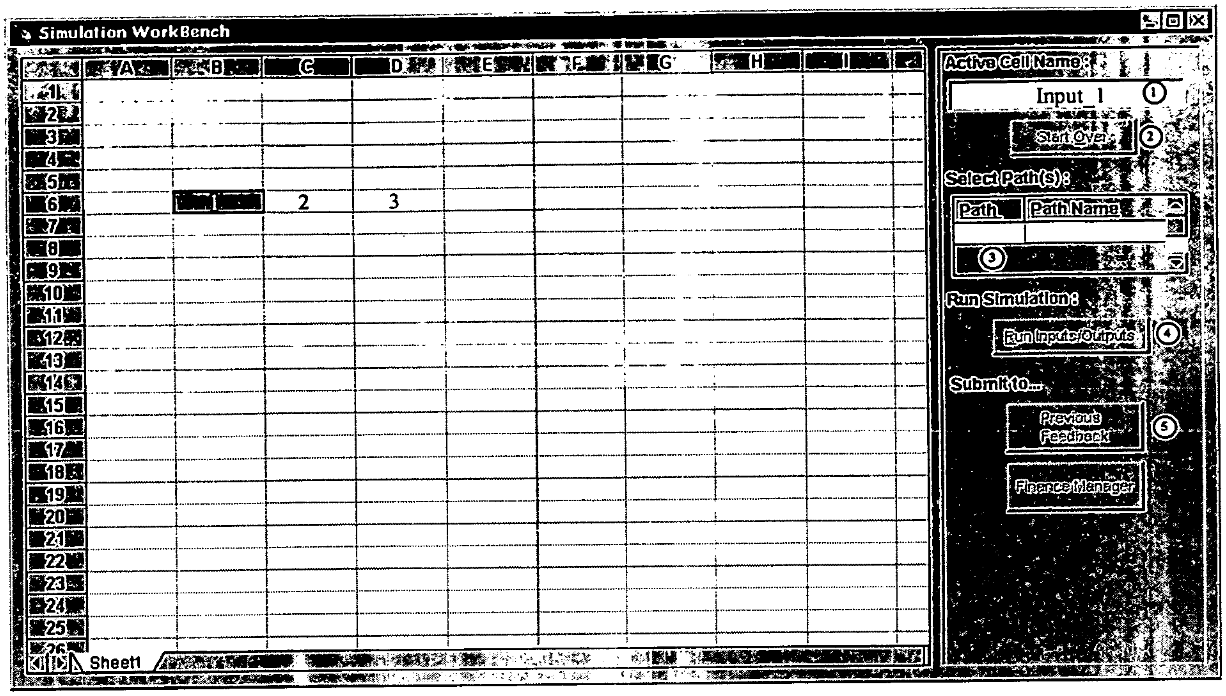
Student ID: 100001

FIGURE 67A


Object Editor
ControlSourceItem
Name:
Description:
Module Name:
Item No
Start/R
End/D
Source m:
OK
Cancel
Edit
Delete
Add New
>
>>
0 of 0

ModuleName	ControlName	ItemNo	celtemID

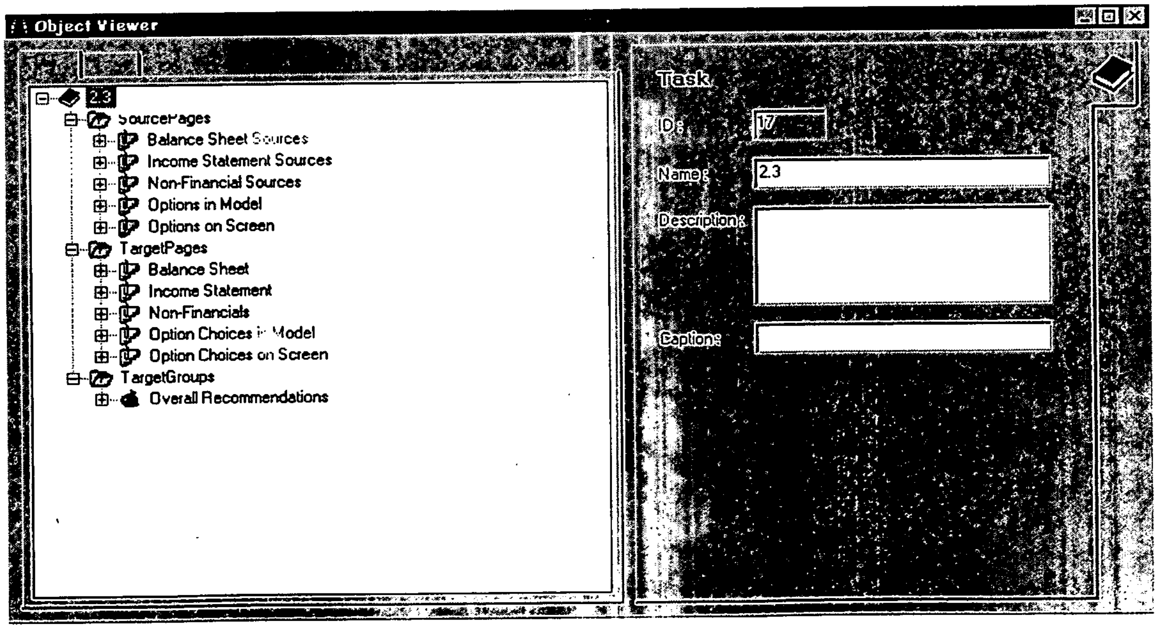
FIGURE 67B


Simulation WorkBench
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
Sheet1
Start Over
②
Select Path(s):
Path
Path Name
③
Run Simulation:
Run Inputs/Outputs
④
Submit to...
Previous Feedback
⑤
Finance Manager

	A	B	C	D
6			2	3

Active Cell Name: Input_1 ①

Figure 68


Object Viewer
Task

- 2.3
  - SourcePages
    - Balance Sheet Sources
    - Income Statement Sources
    - Non-Financial Sources
    - Options in Model
    - Options on Screen
  - TargetPages
    - Balance Sheet
    - Income Statement
    - Non-Financials
    - Option Choices in Model
    - Option Choices on Screen
  - TargetGroups
    - Overall Recommendations

ID: 17

Name: 2.3

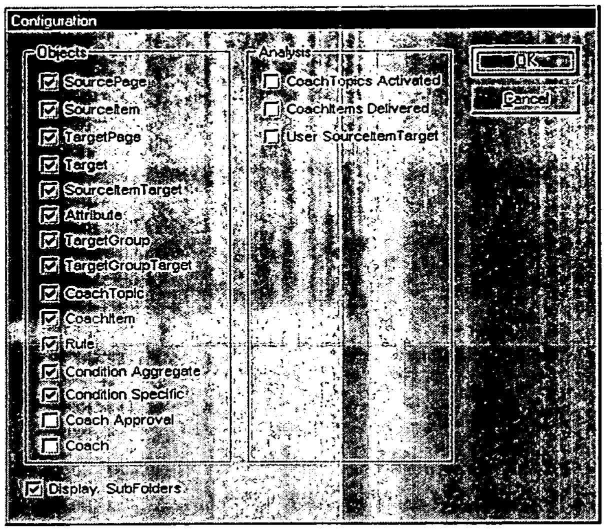
Description:

Caption:

Figure 69

09534524 .082201

09734926 .022801



Configuration

Objects

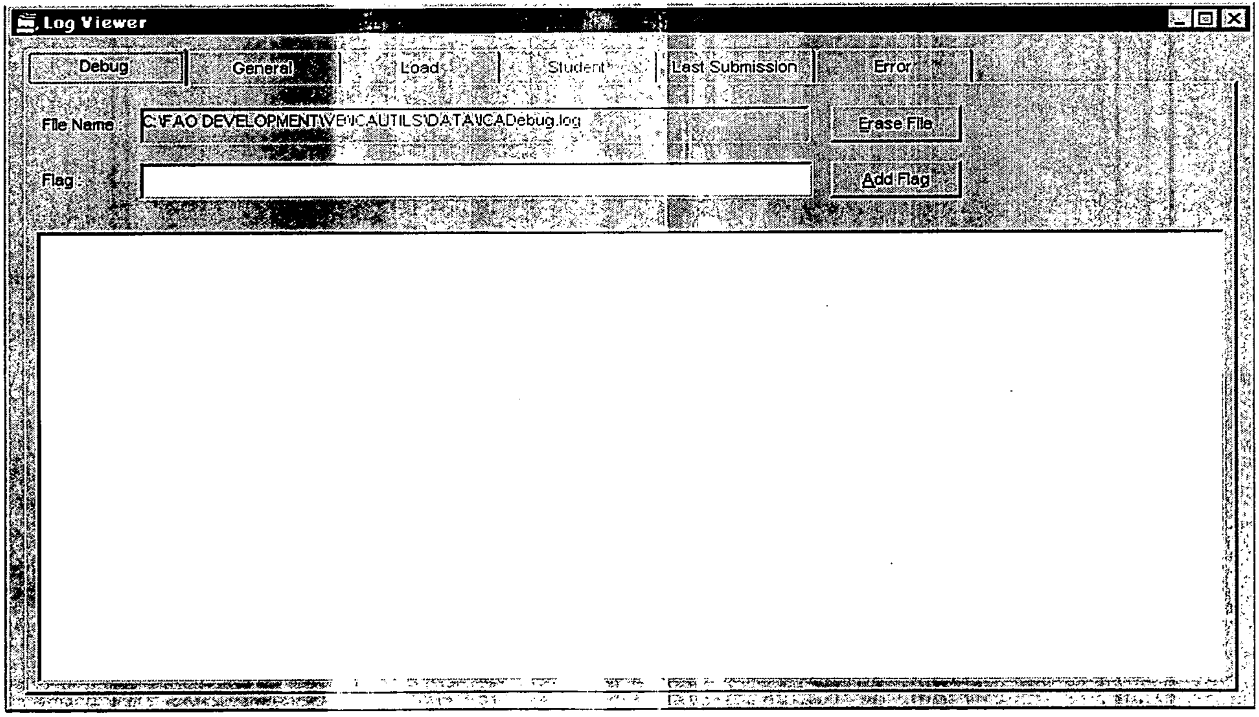
☑ SourcePage
☑ SourceItem
☑ TargetPage
☑ Target
☑ SourceItemTarget
☑ Attribute
☑ TargetGroup
☑ TargetGroupTarget
☑ CoachTopic
☑ CoachItem
☑ Rule
☑ Condition Aggregate
☑ Condition Specific
☐ Coach Approval
☐ Coach

Analysis

☐ CoachTopics Activated
☐ CoachItems Delivered
☐ User SourceItemTarget

☑ Display. SubFolders

Figure 70



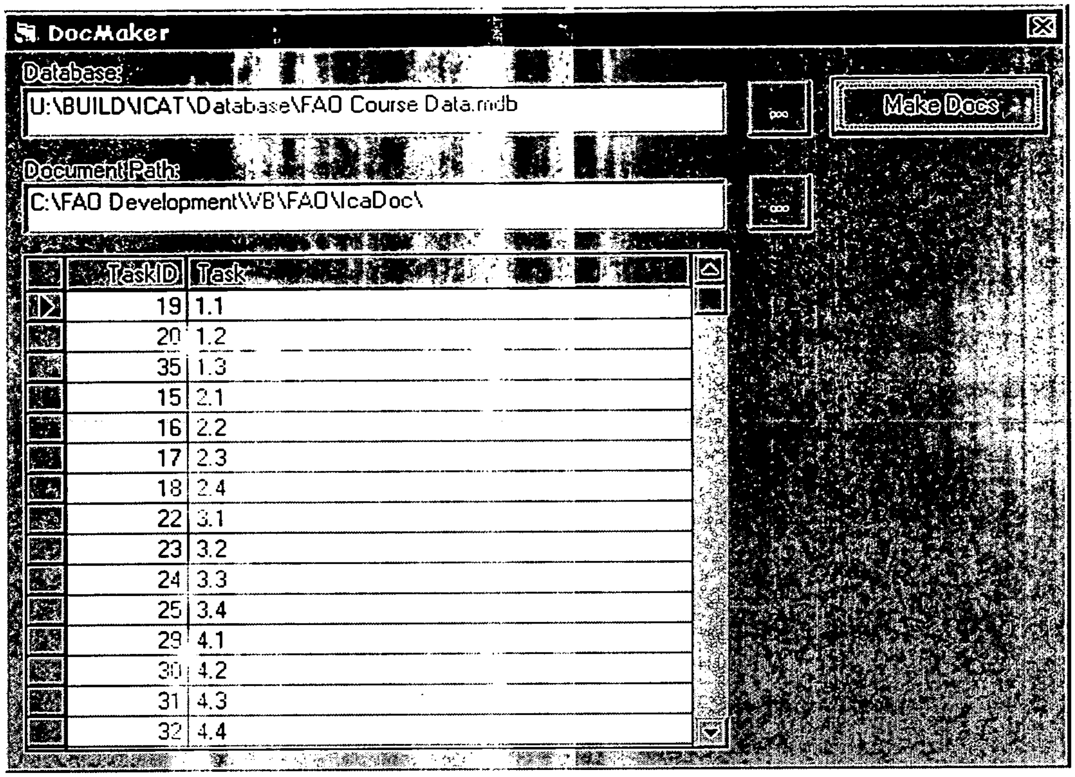
Log Viewer

Debug
General
Load
Student
Last Submission
Error
Erase File
Add Flag

File Name : C:\FAO DEVELOPMENT\VB\ICAUTILS\DATA\ICADebug.log

Flag :

Figure 71



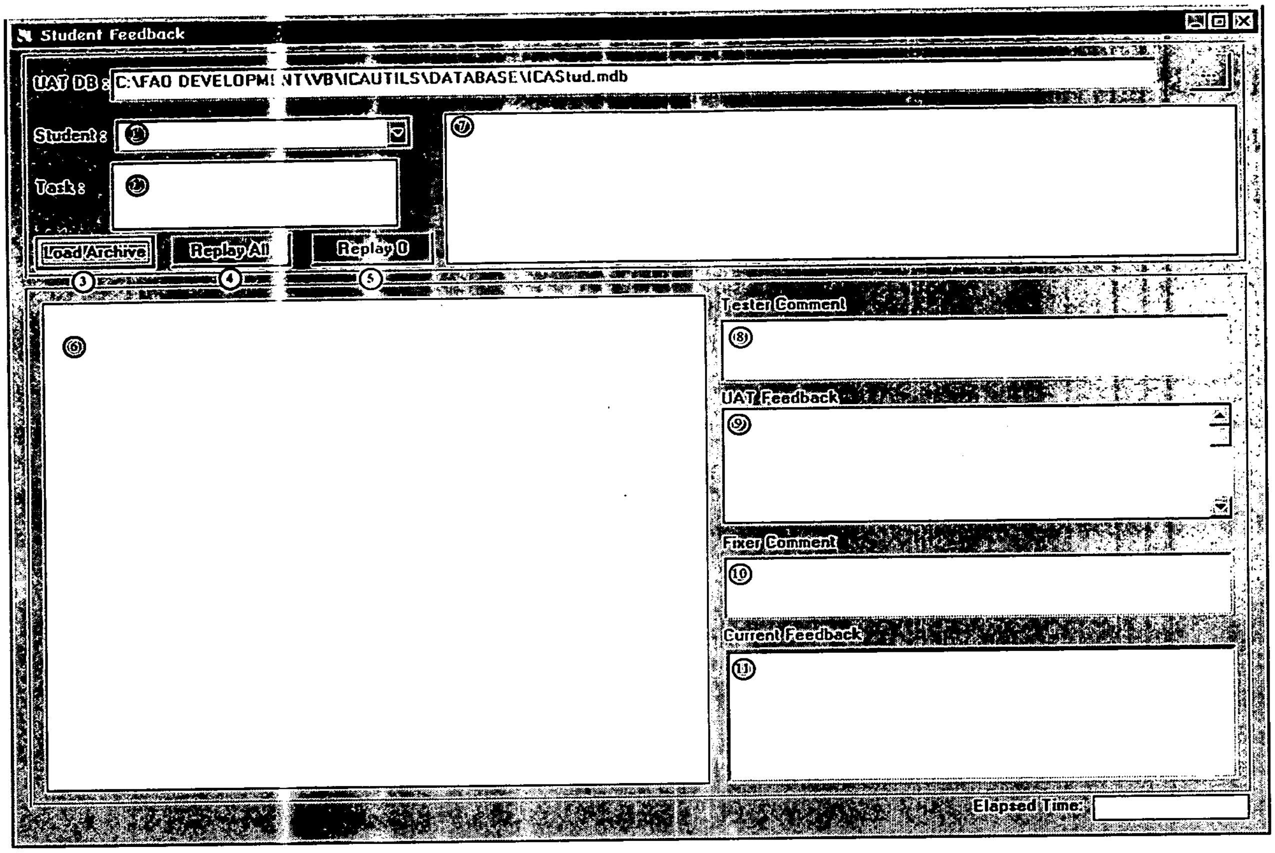
Database:
U:\BUILD\ICAT\Database\FAO Course Data.mdb

Document Path:
C:\FAO Development\VB\FAO\IcaDoc\

TaskID	Task
19	1.1
20	1.2
35	1.3
15	2.1
16	2.2
17	2.3
18	2.4
22	3.1
23	3.2
24	3.3
25	3.4
29	4.1
30	4.2
31	4.3
32	4.4

Figure 72

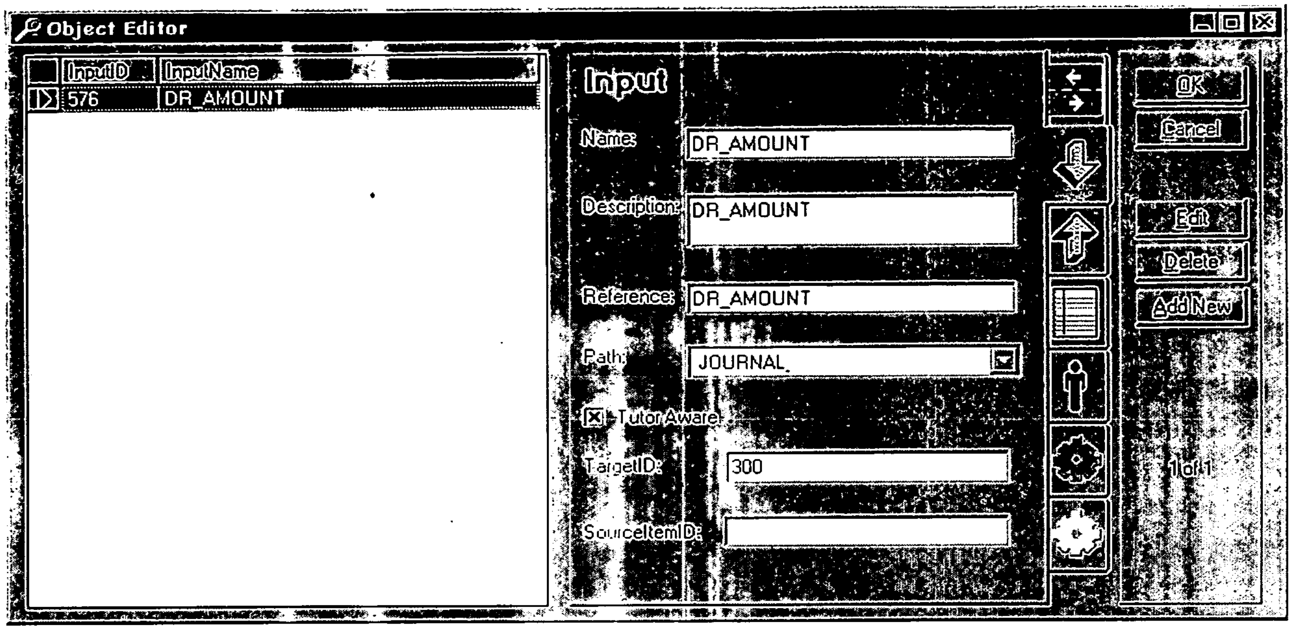
09934924.022801


Student Feedback
Student :
Task :
Load Archive
Replay All
Replay 0
Tester Comment
UAT Feedback
Fixer Comment
Current Feedback
Elapsed Time:
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪

UAT DB : C:\FAO DEVELOPMENT\VB\ICAUTILS\DATABASE\ICAStud.mdb

Figure 73

09934524 . 022801


Object Editor
OK
Cancel
Edit
Delete
Add New
1 of 1

	InputID	InputName
▷	576	DR_AMOUNT

Input

Name: DR_AMOUNT

Description: DR_AMOUNT

Reference: DR_AMOUNT

Path: JOURNAL_

☒ Tutor Aware

TargetID: 300

SourceItemID:

Figure 74

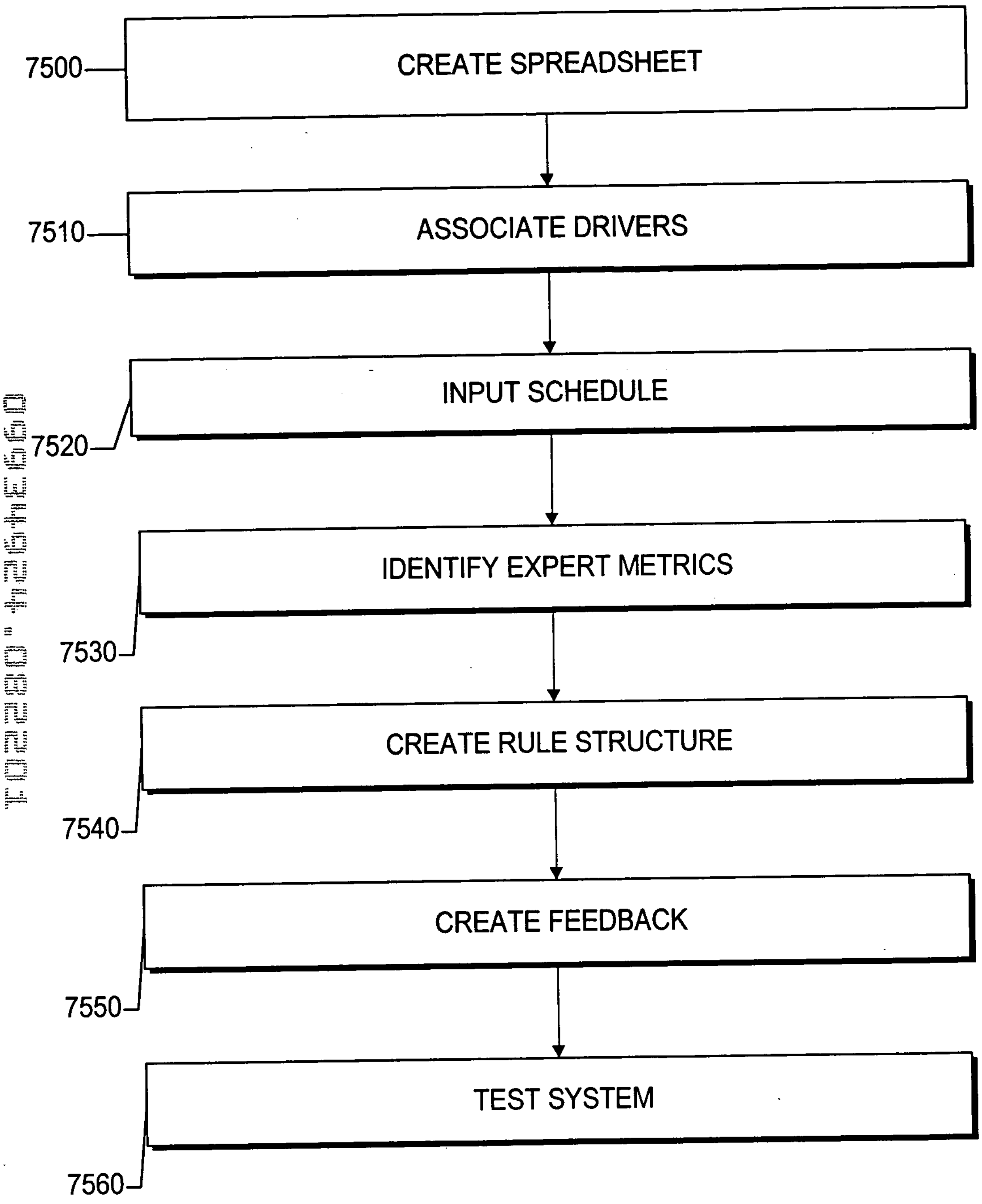
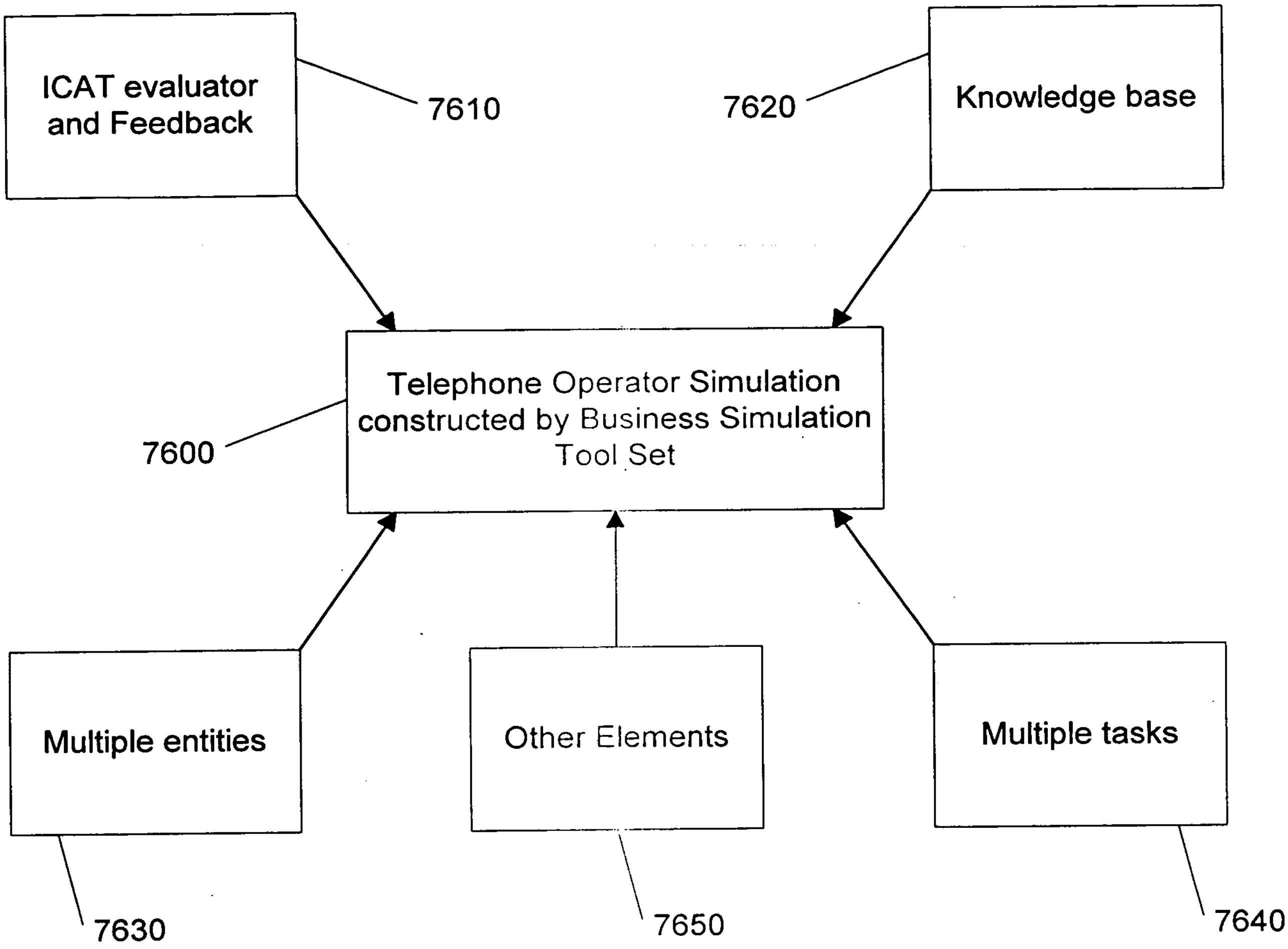

7500
CREATE SPREADSHEET
7510
ASSOCIATE DRIVERS
INPUT SCHEDULE
7520
IDENTIFY EXPERT METRICS
7530
CREATE RULE STRUCTURE
7540
CREATE FEEDBACK
7550
TEST SYSTEM
7560

FIGURE 75

09934524.082201



ICAT evaluator and Feedback
7610
7620
Knowledge base
Telephone Operator Simulation constructed by Business Simulation Tool Set
7600
Multiple entities
Other Elements
Multiple tasks
7630
7650
7640

Figure 76
Assembly of Telephone Operator Training Simulation

09534524.082201

09934924.082201

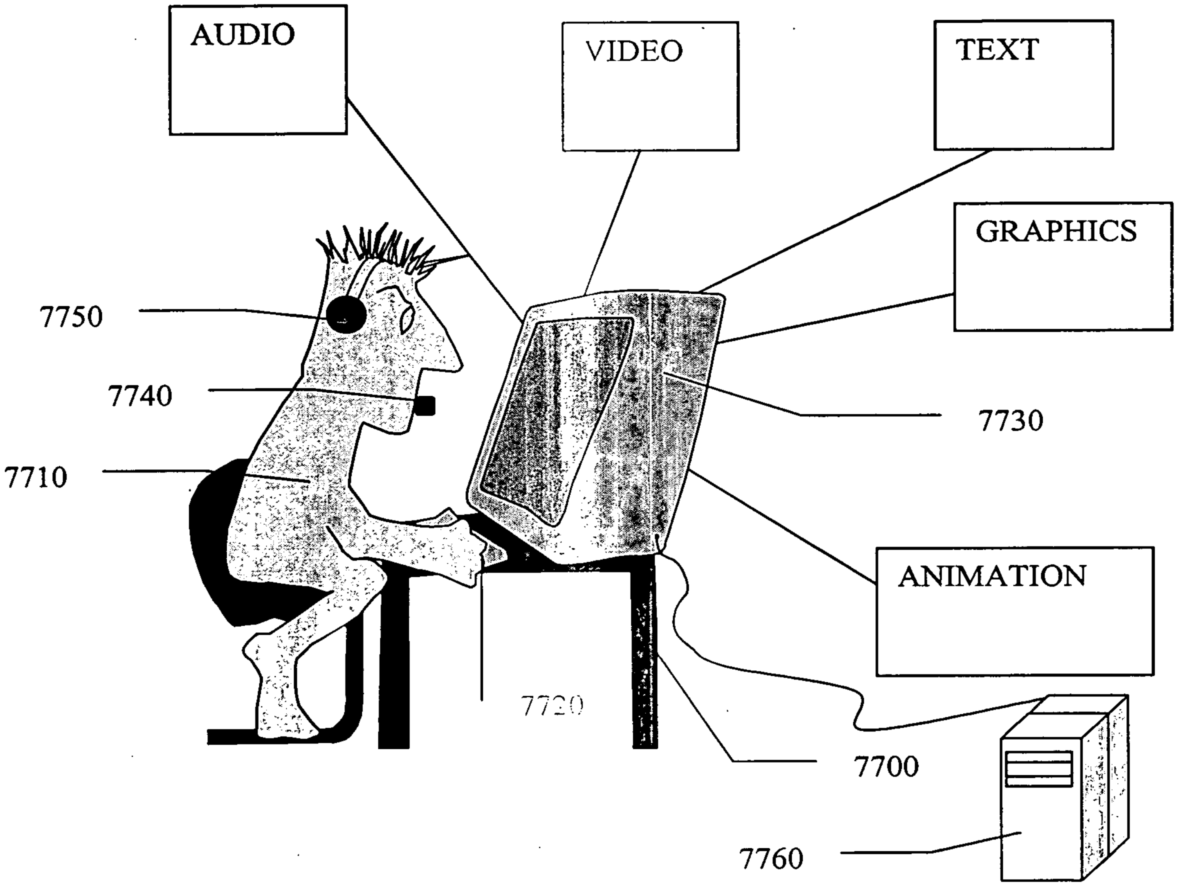

AUDIO
VIDEO
TEXT
GRAPHICS
7750
7740
7730
7710
ANIMATION
7720
7700
7760

FIGURE 77

09934624.022801

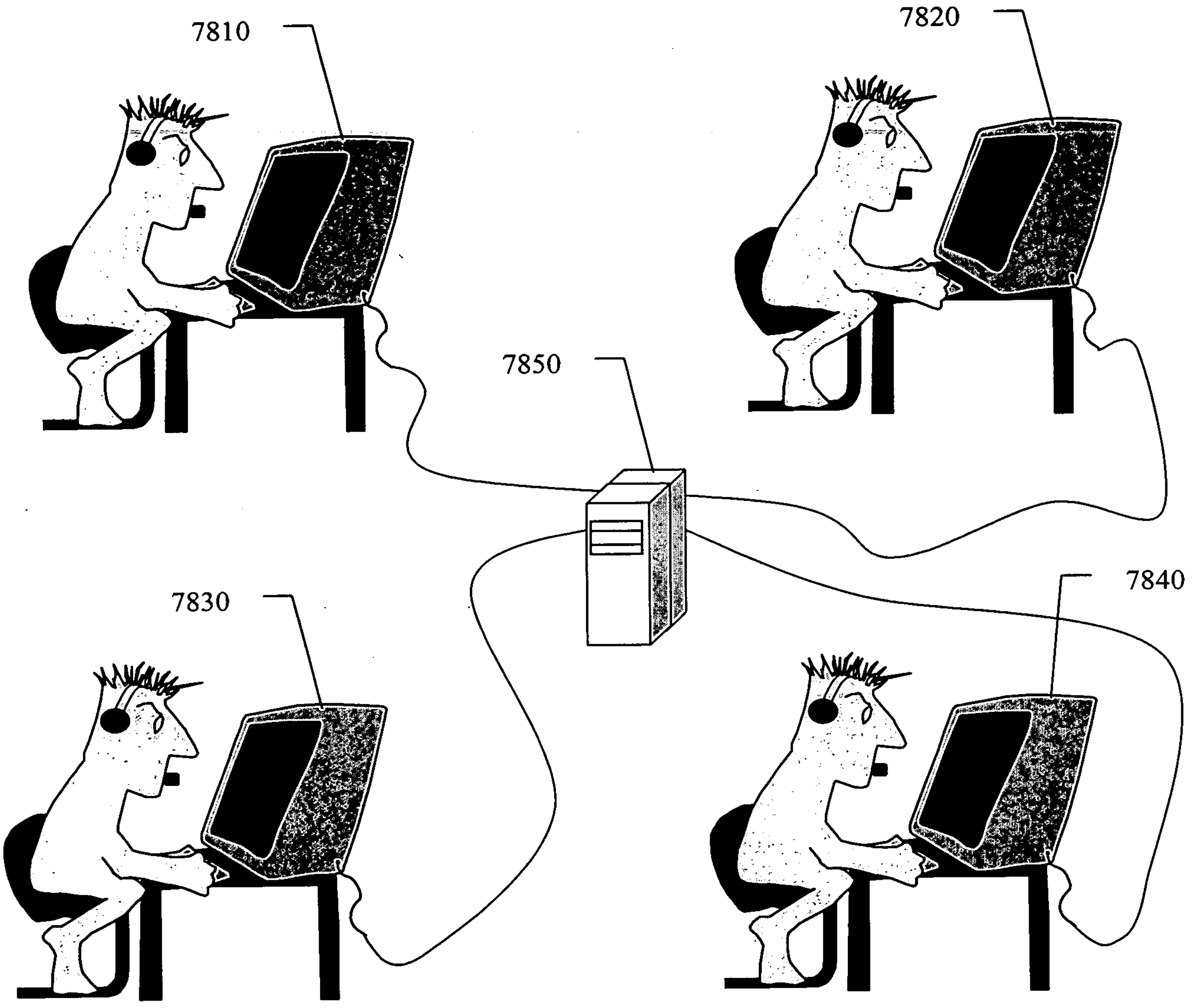
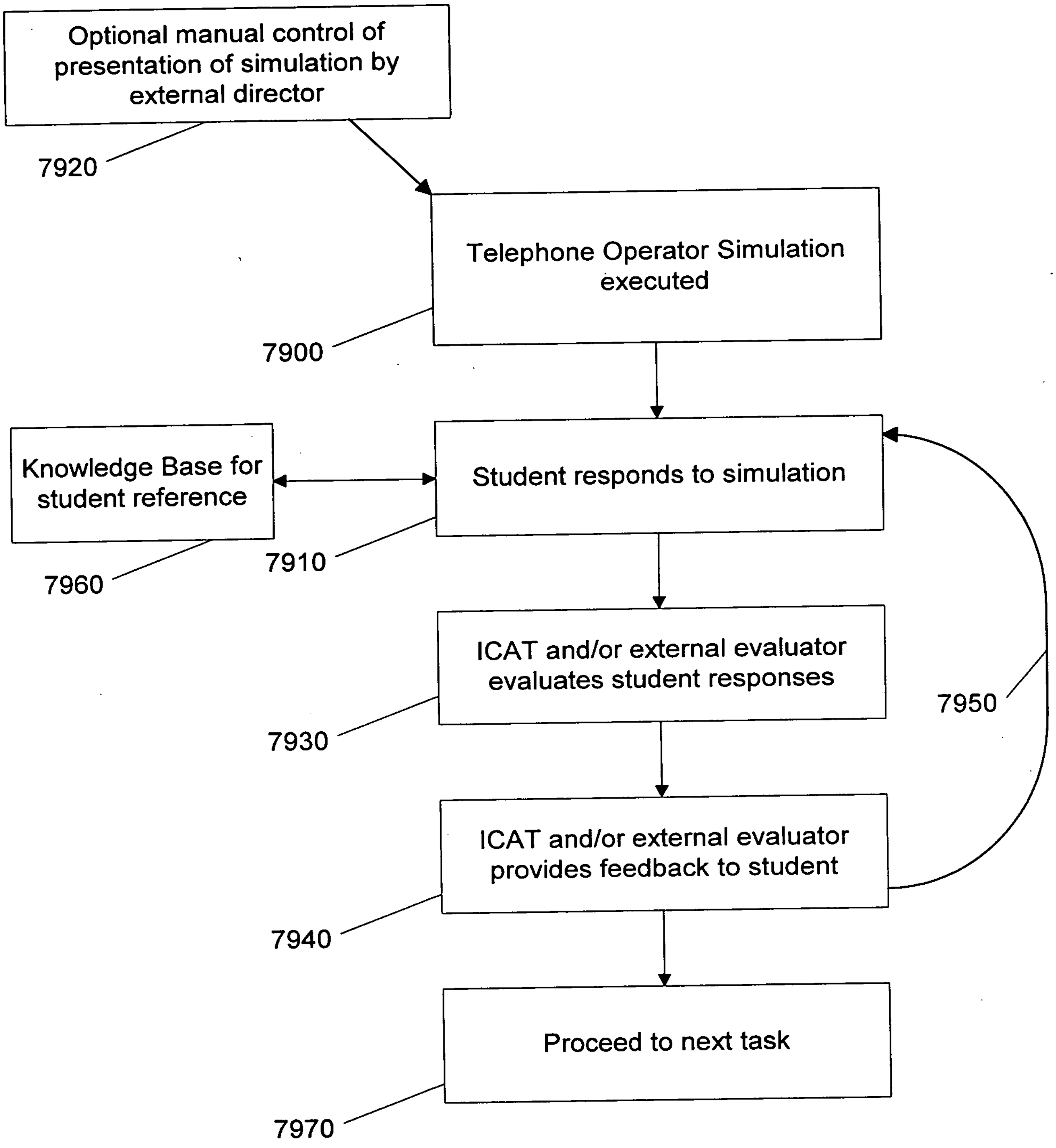

7810
7820
7850
7830
7840

FIGURE 78



Optional manual control of presentation of simulation by external director
7920
Telephone Operator Simulation executed
7900
Knowledge Base for student reference
Student responds to simulation
7960
7910
ICAT and/or external evaluator evaluates student responses
7950
7930
ICAT and/or external evaluator provides feedback to student
7940
Proceed to next task
7970

Figure 79
Telephone Operator Training Simulation Execution

09934452 " 020801

09634624.022801

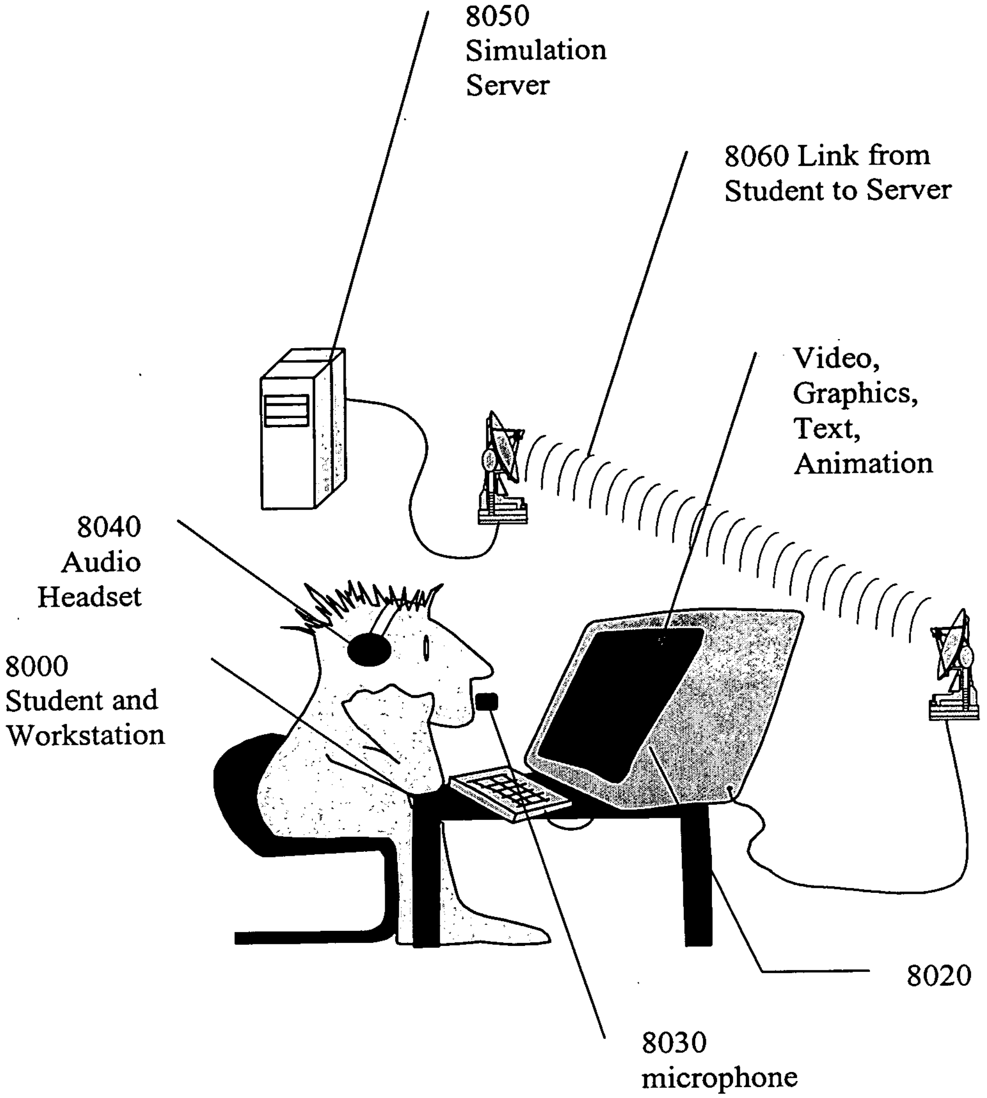

8050
Simulation
Server
8060 Link from
Student to Server
Video,
Graphics,
Text,
Animation
8040
Audio
Headset
8000
Student and
Workstation
8020
8030
microphone

Figure 80

09934524.082801

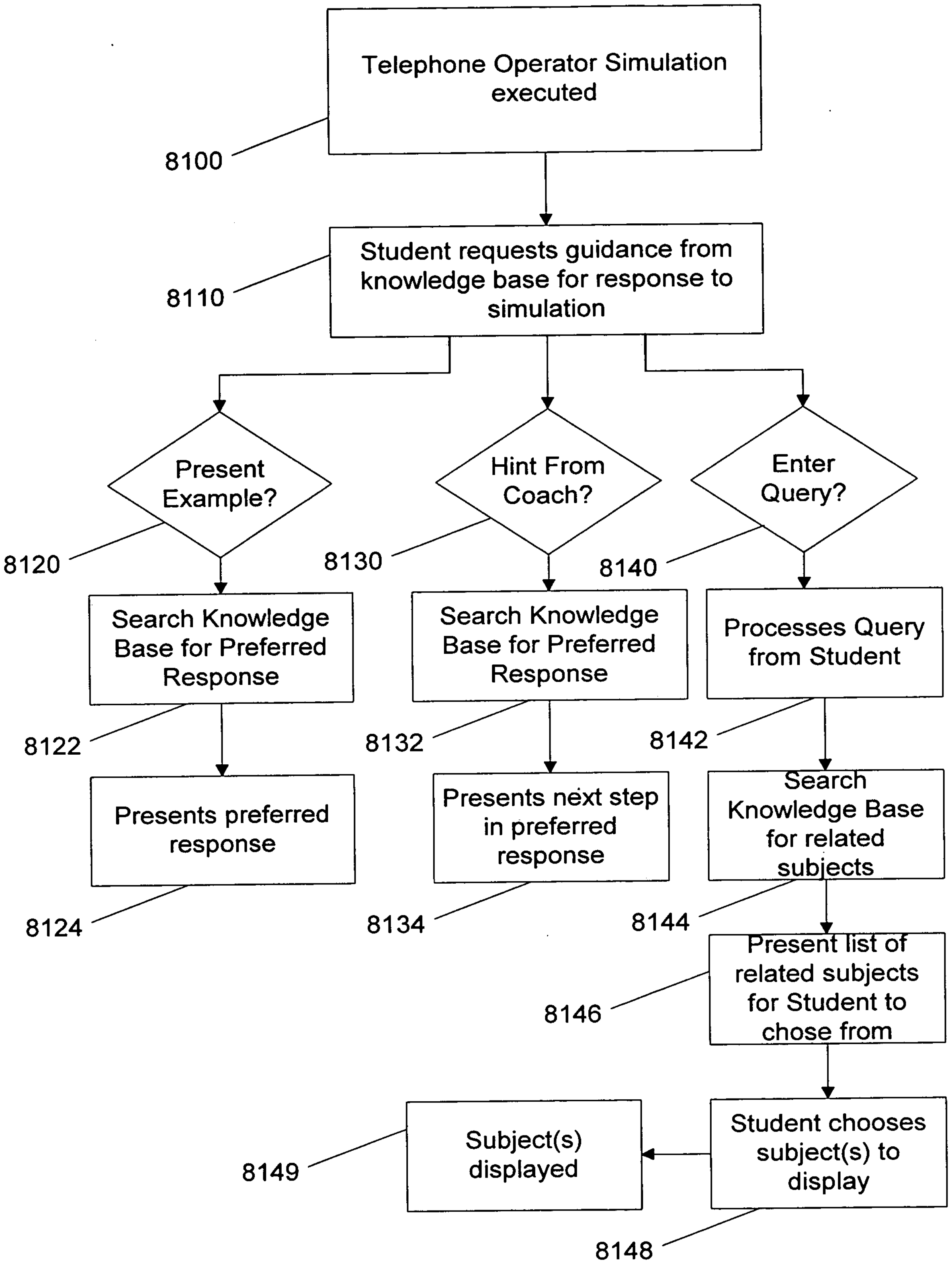
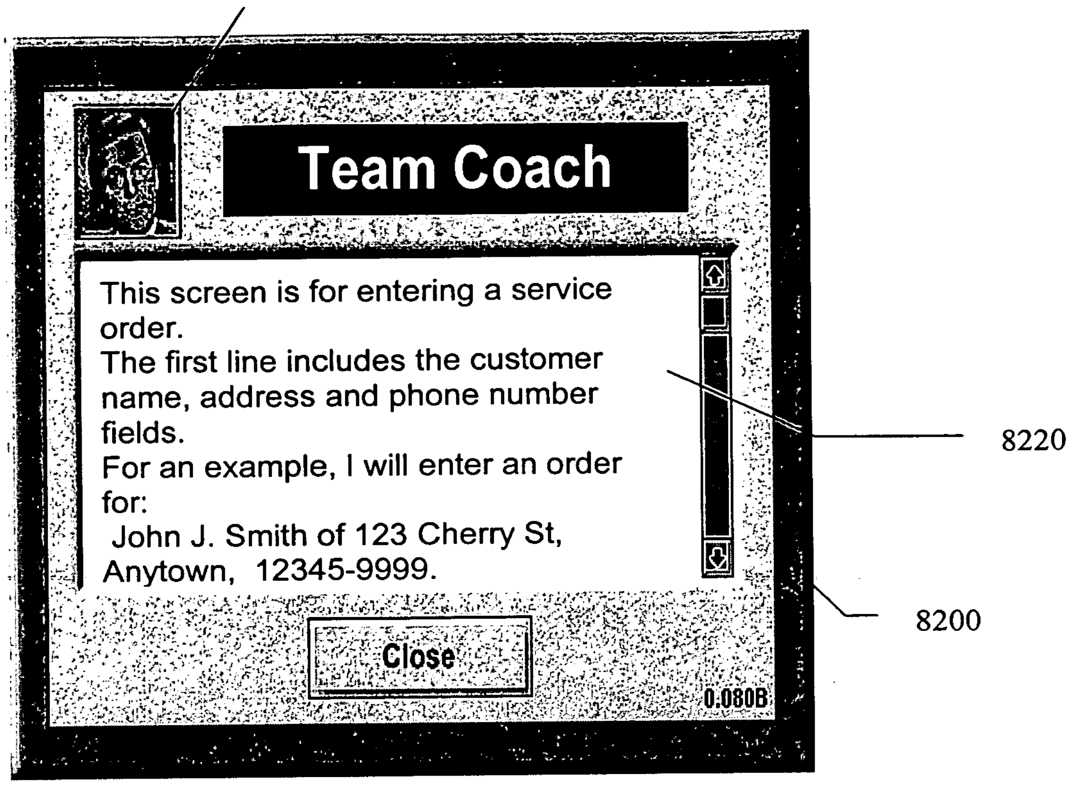

Telephone Operator Simulation executed
8100
Student requests guidance from knowledge base for response to simulation
8110
Present Example?
8120
Hint From Coach?
8130
Enter Query?
8140
Search Knowledge Base for Preferred Response
8122
Search Knowledge Base for Preferred Response
8132
Processes Query from Student
8142
Presents preferred response
8124
Presents next step in preferred response
8134
Search Knowledge Base for related subjects
8144
Present list of related subjects for Student to chose from
8146
Student chooses subject(s) to display
8148
Subject(s) displayed
8149

Figure 81
Query Knowledge Base



Team Coach

This screen is for entering a service order.
The first line includes the customer name, address and phone number fields.
For an example, I will enter an order for:
John J. Smith of 123 Cherry St, Anytown, 12345-9999.

Close
0.080B
8220
8200

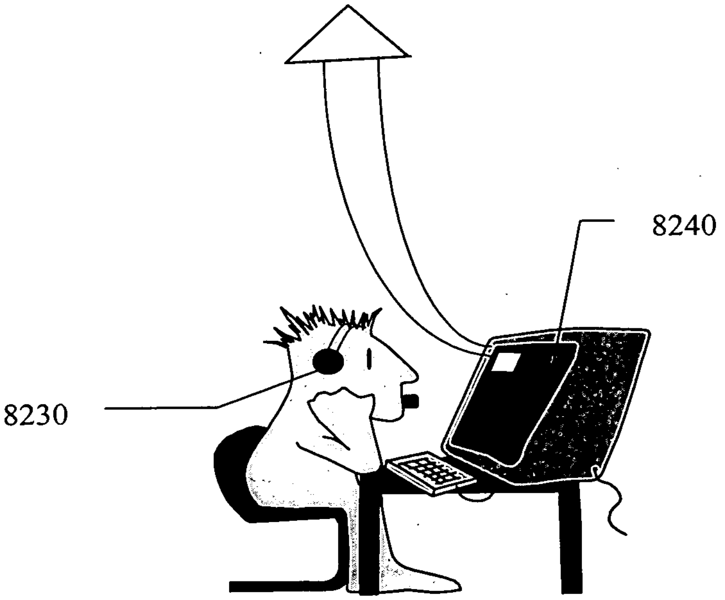


Figure 82

09934924.082201

09934924.082201

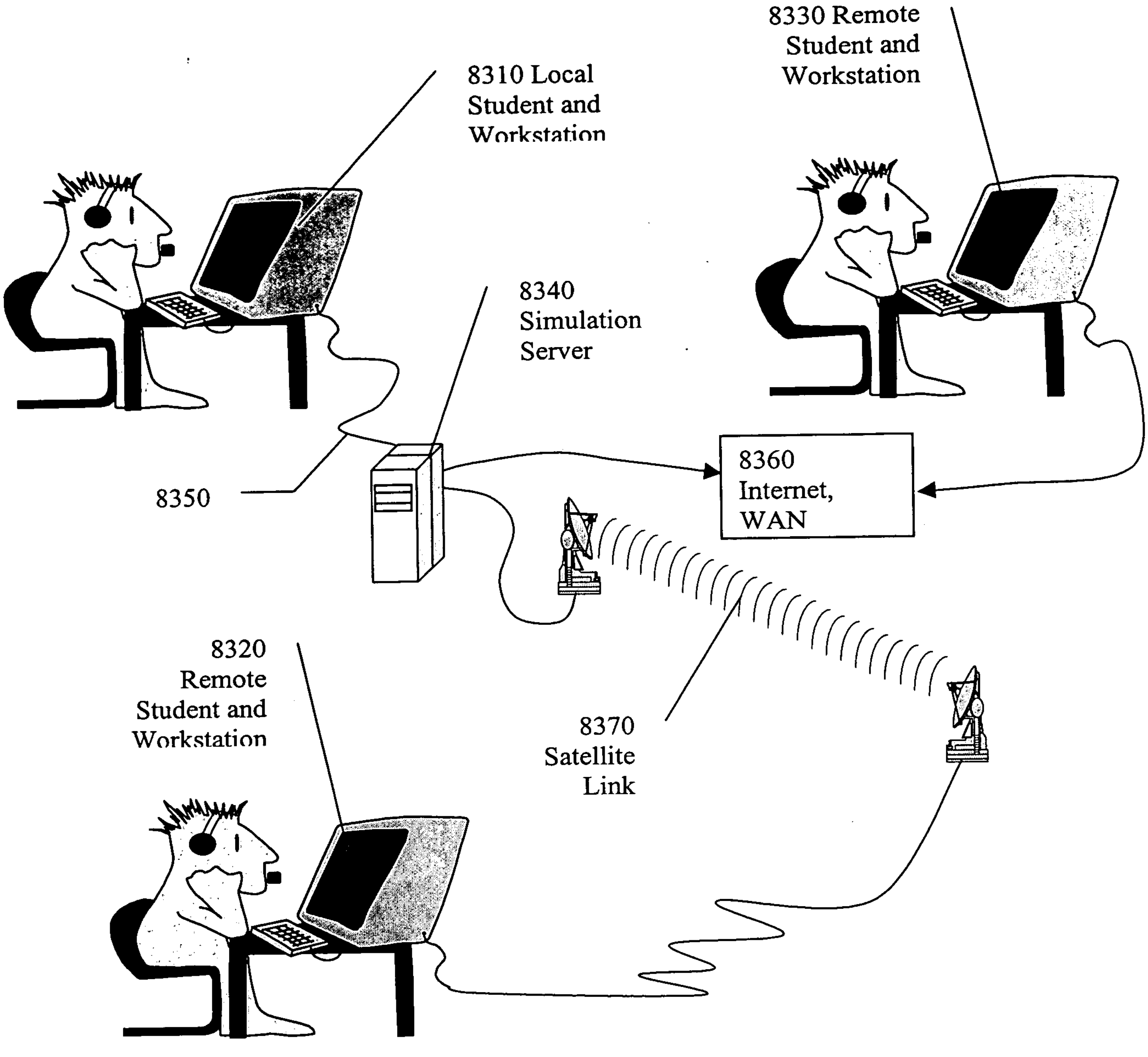

8310 Local Student and Workstation
8330 Remote Student and Workstation
8340 Simulation Server
8350
8360 Internet, WAN
8320 Remote Student and Workstation
8370 Satellite Link

Figure 83

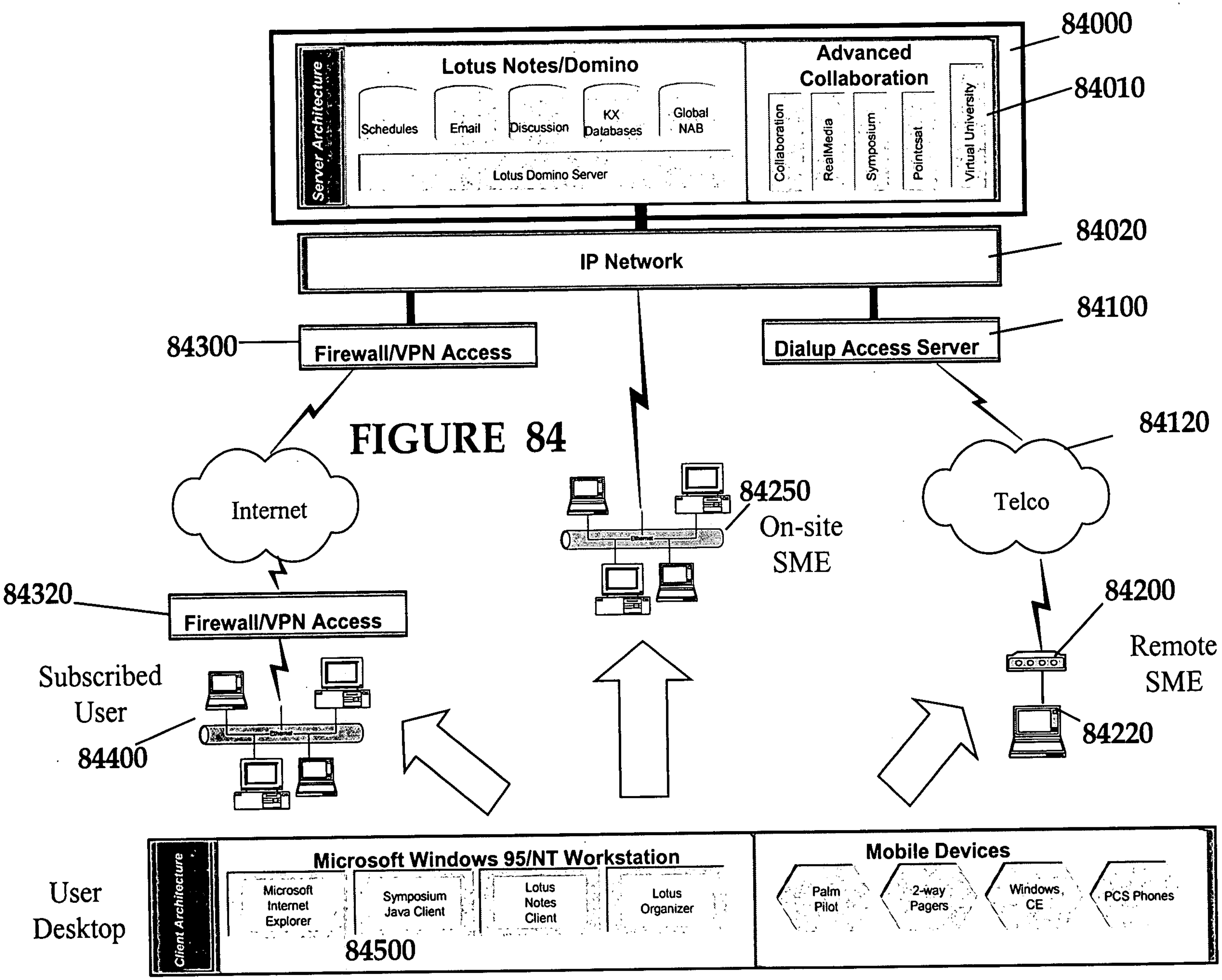
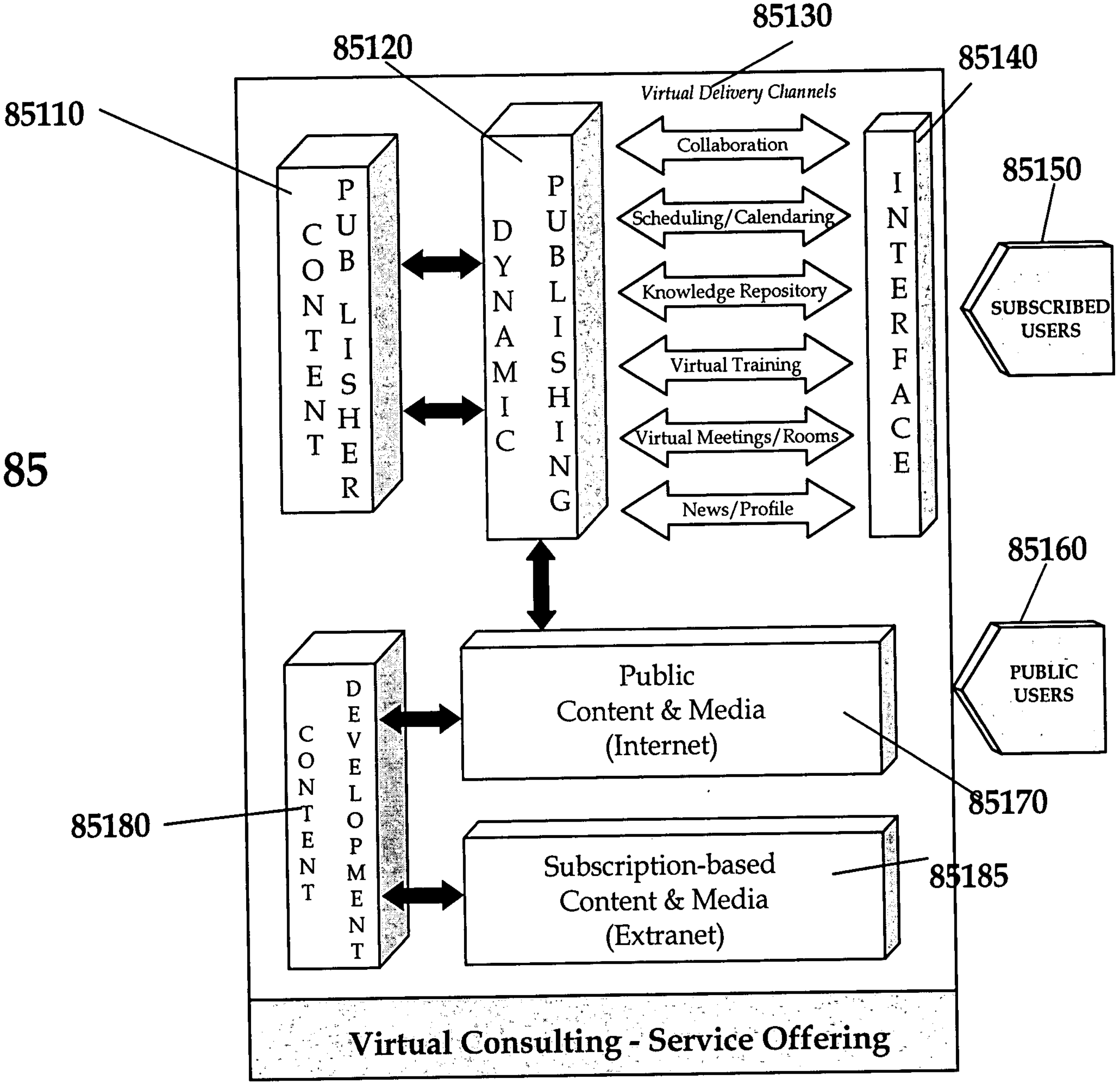

84000
84010
Server Architecture
Lotus Notes/Domino
Schedules
Email
Discussion
KX Databases
Global NAB
Lotus Domino Server
Advanced Collaboration
Collaboration
RealMedia
Symposium
Pointcsat
Virtual University
84020
IP Network
84300
Firewall/VPN Access
84100
Dialup Access Server
84120
Internet
Telco
84250
On-site SME
84320
Firewall/VPN Access
84200
Remote SME
Subscribed User
84400
84220
User Desktop
Client Architecture
Microsoft Windows 95/NT Workstation
Microsoft Internet Explorer
Symposium Java Client
Lotus Notes Client
Lotus Organizer
84500
Mobile Devices
Palm Pilot
2-way Pagers
Windows, CE
PCS Phones

FIGURE 84

FIGURE 85



85110
85120
85130
85140
85150
85160
85170
85180
85185
Virtual Delivery Channels
CONTENT PUBLISHER
DYNAMIC PUBLISHING
Collaboration
Scheduling/Calendaring
Knowledge Repository
Virtual Training
Virtual Meetings/Rooms
News/Profile
INTERFACE
SUBSCRIBED USERS
PUBLIC USERS
CONTENT DEVELOPMENT
Public Content & Media (Internet)
Subscription-based Content & Media (Extranet)
Virtual Consulting - Service Offering

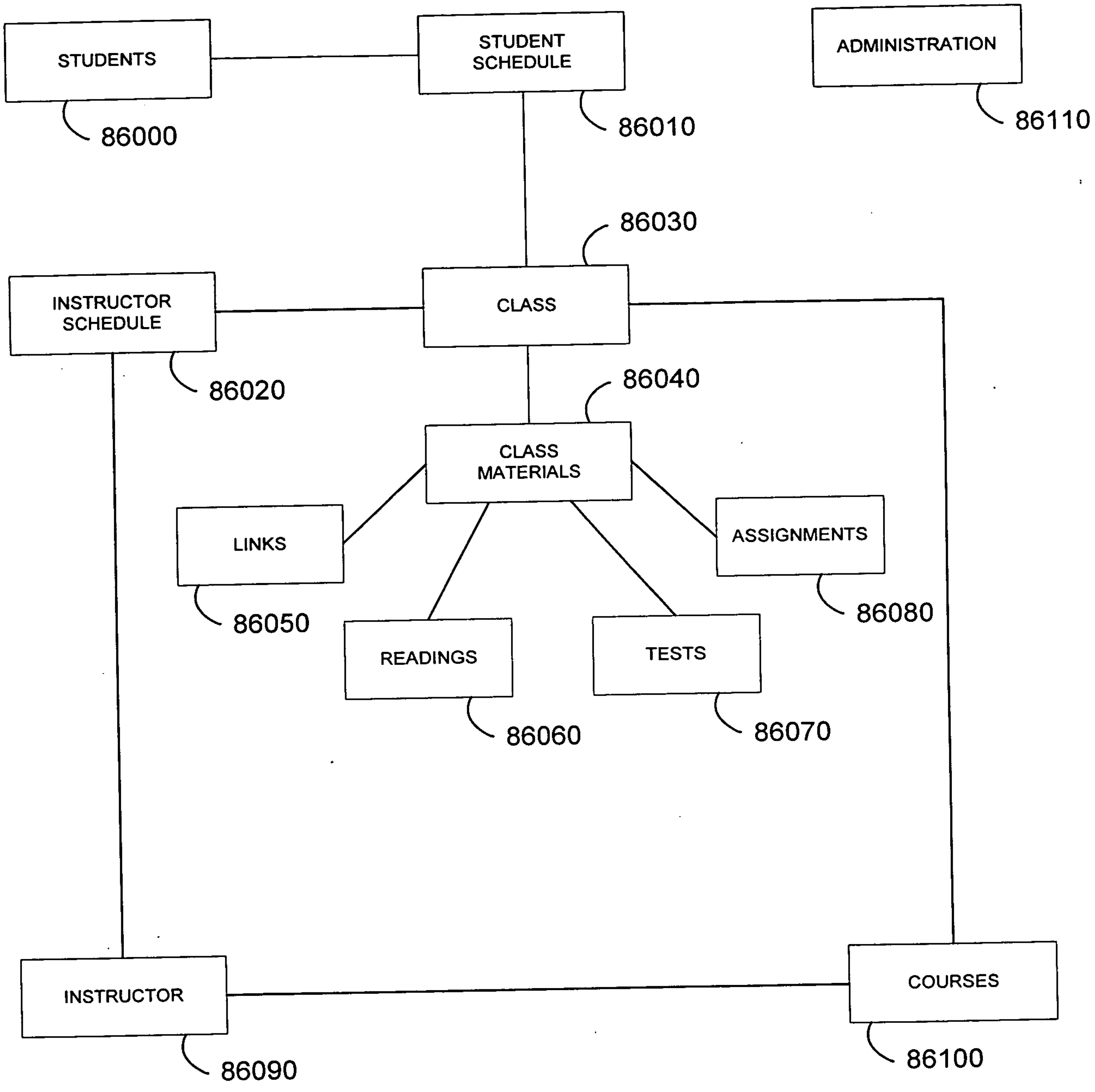

STUDENTS
86000
STUDENT SCHEDULE
86010
ADMINISTRATION
86110
86030
INSTRUCTOR SCHEDULE
CLASS
86020
86040
CLASS MATERIALS
LINKS
ASSIGNMENTS
86050
86080
READINGS
TESTS
86060
86070
INSTRUCTOR
COURSES
86090
86100

FIGURE 86

09934924 . 082201

09934924.082201

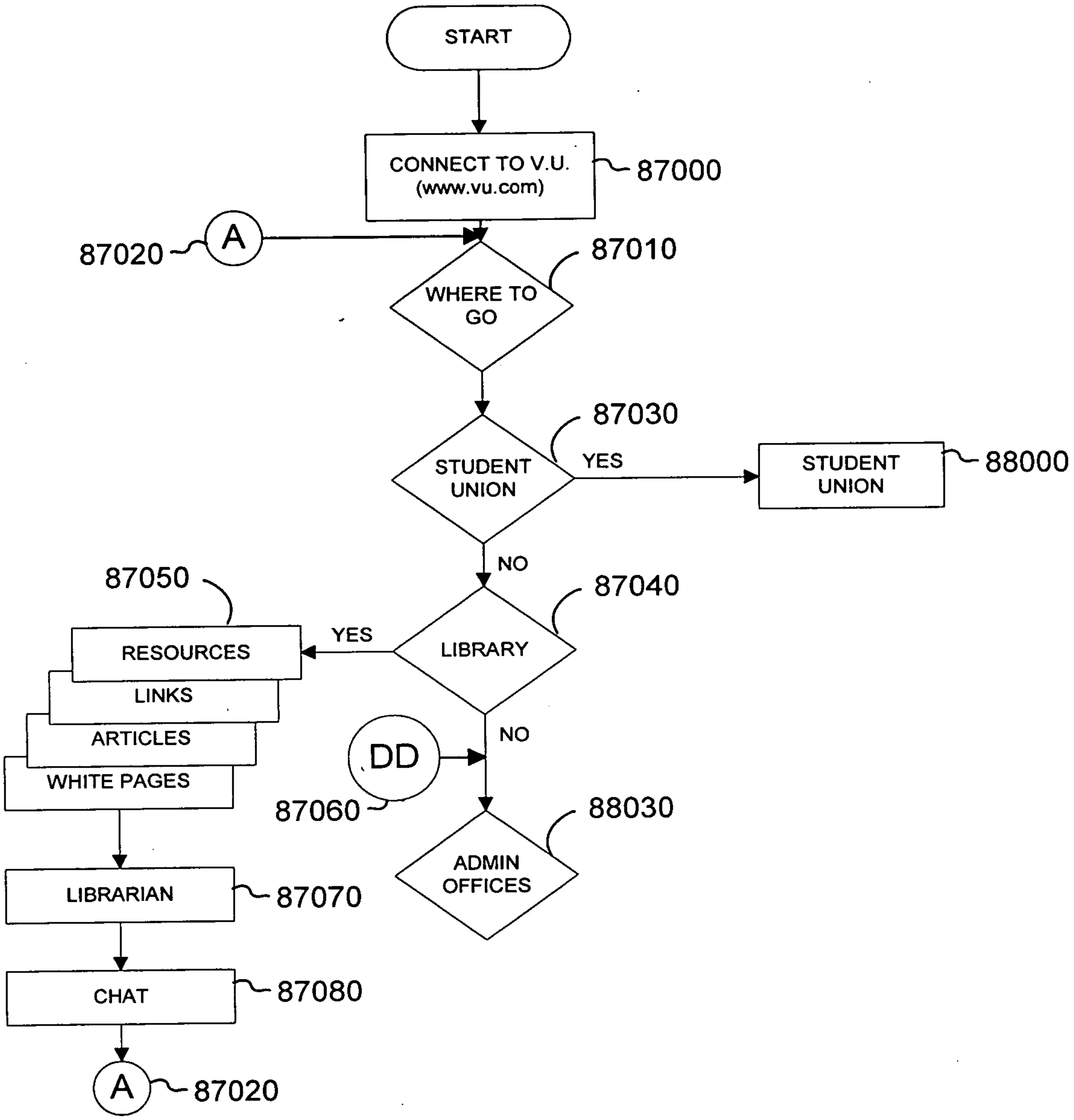

START
CONNECT TO V.U. (www.vu.com)
87000
A
87020
87010
WHERE TO GO
87030
STUDENT UNION
YES
STUDENT UNION
88000
NO
87050
87040
YES
LIBRARY
RESOURCES
LINKS
ARTICLES
WHITE PAGES
NO
DD
87060
88030
ADMIN OFFICES
LIBRARIAN
87070
CHAT
87080
A
87020

FIGURE 87

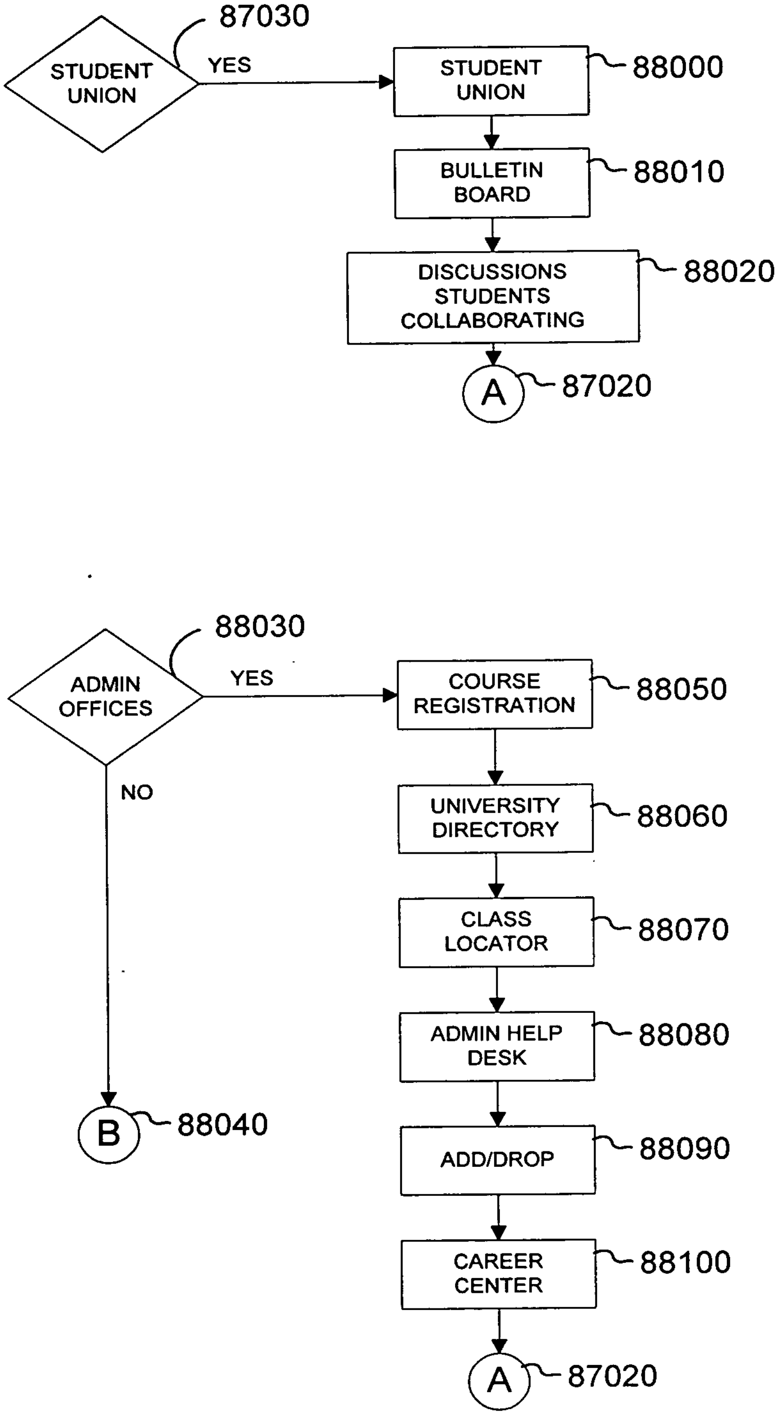

87030
STUDENT UNION
YES
STUDENT UNION
88000
BULLETIN BOARD
88010
DISCUSSIONS STUDENTS COLLABORATING
88020
A
87020
88030
ADMIN OFFICES
YES
NO
COURSE REGISTRATION
88050
UNIVERSITY DIRECTORY
88060
CLASS LOCATOR
88070
ADMIN HELP DESK
88080
ADD/DROP
88090
CAREER CENTER
88100
B
88040
A
87020

FIGURE 88

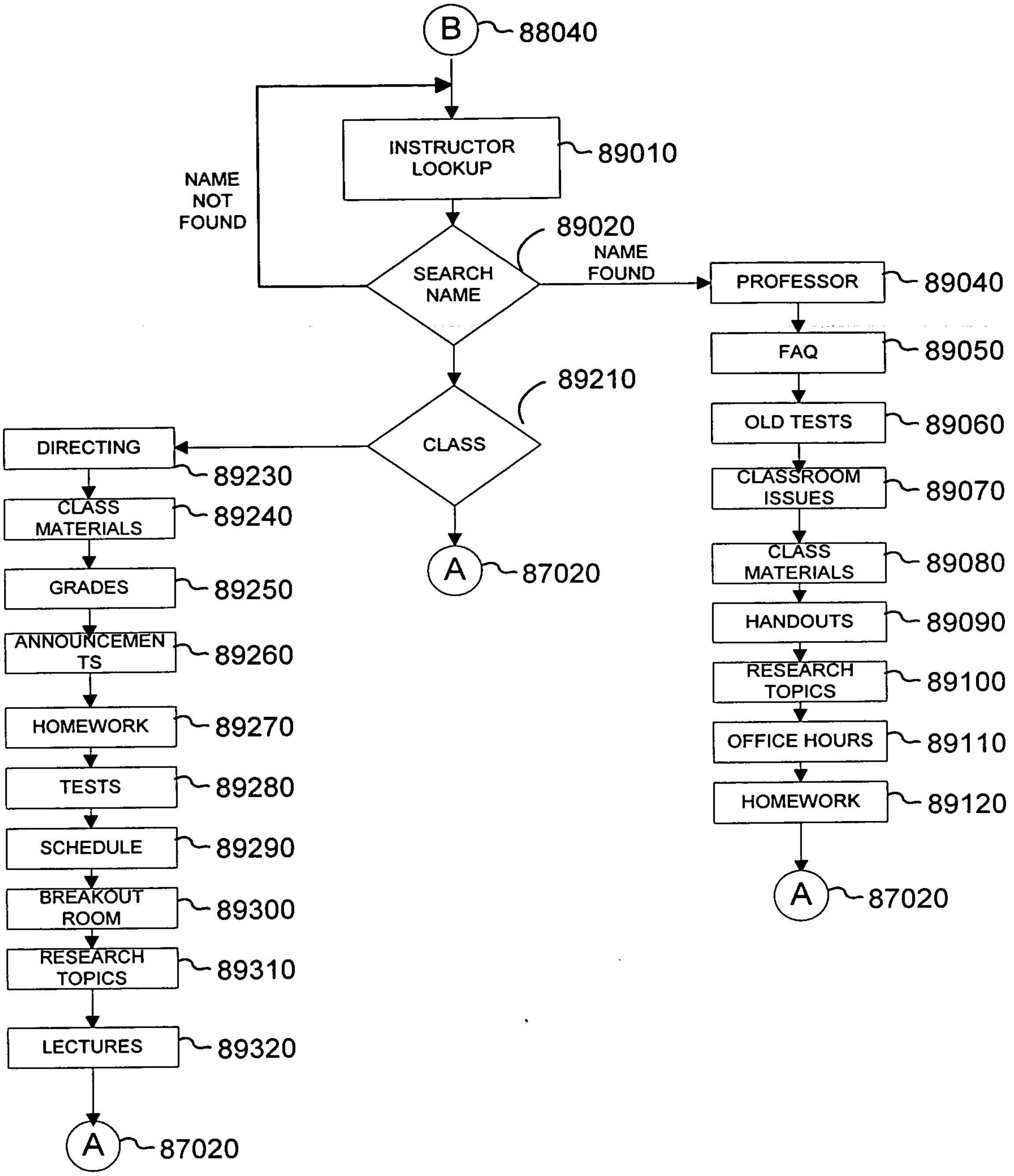

B
88040
INSTRUCTOR LOOKUP
89010
NAME NOT FOUND
SEARCH NAME
89020
NAME FOUND
PROFESSOR
89040
FAQ
89050
OLD TESTS
89060
CLASSROOM ISSUES
89070
CLASS MATERIALS
89080
HANDOUTS
89090
RESEARCH TOPICS
89100
OFFICE HOURS
89110
HOMEWORK
89120
A
87020
CLASS
89210
A
87020
DIRECTING
89230
CLASS MATERIALS
89240
GRADES
89250
ANNOUNCEMENTS
89260
HOMEWORK
89270
TESTS
89280
SCHEDULE
89290
BREAKOUT ROOM
89300
RESEARCH TOPICS
89310
LECTURES
89320
A
87020

FIGURE 89

10228088.042604

09634624.082201

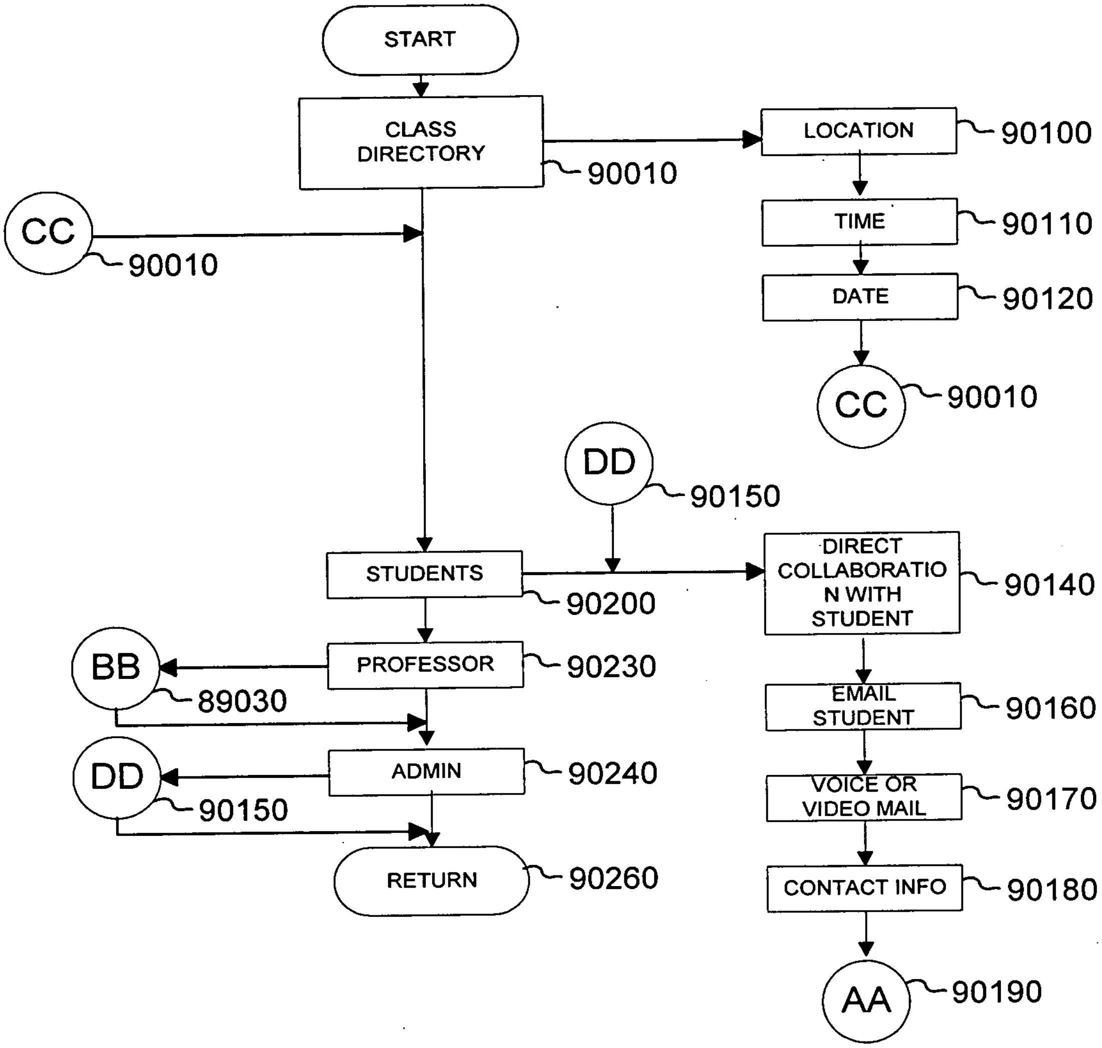

START
CLASS DIRECTORY
90010
LOCATION
90100
TIME
90110
DATE
90120
CC
90010
CC
90010
DD
90150
STUDENTS
90200
DIRECT COLLABORATIO N WITH STUDENT
90140
PROFESSOR
90230
BB
89030
EMAIL STUDENT
90160
ADMIN
90240
DD
90150
VOICE OR VIDEO MAIL
90170
RETURN
90260
CONTACT INFO
90180
AA
90190

FIGURE 90

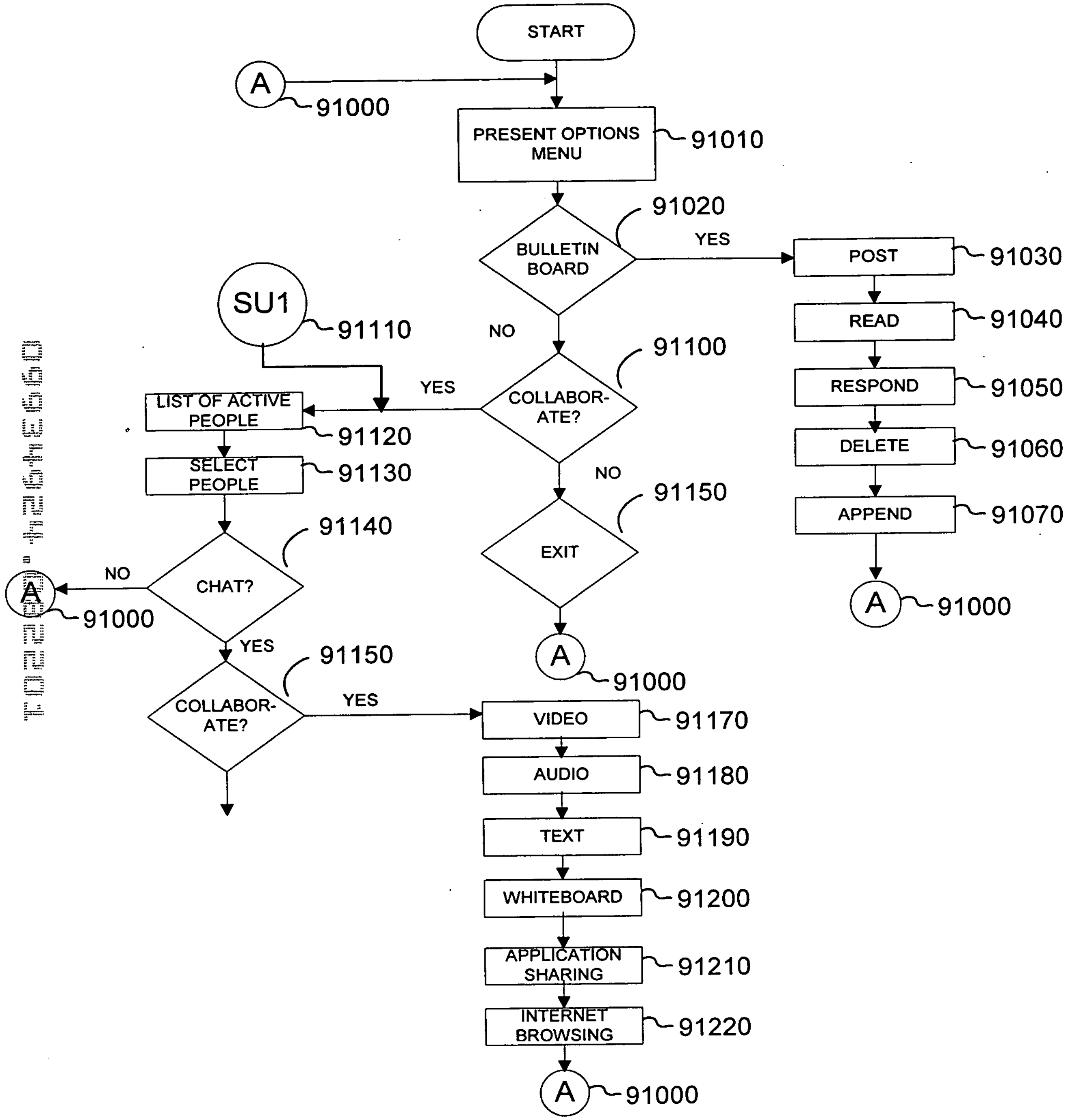

START
A
91000
PRESENT OPTIONS MENU
91010
91020
BULLETIN BOARD
YES
POST
91030
READ
91040
RESPOND
91050
DELETE
91060
APPEND
91070
A
91000
NO
SU1
91110
91100
YES
COLLABOR-ATE?
LIST OF ACTIVE PEOPLE
91120
SELECT PEOPLE
91130
NO
91150
EXIT
A
91000
91140
NO
CHAT?
A
91000
YES
91150
COLLABOR-ATE?
YES
VIDEO
91170
AUDIO
91180
TEXT
91190
WHITEBOARD
91200
APPLICATION SHARING
91210
INTERNET BROWSING
91220
A
91000

FIGURE 91

09634526.080201

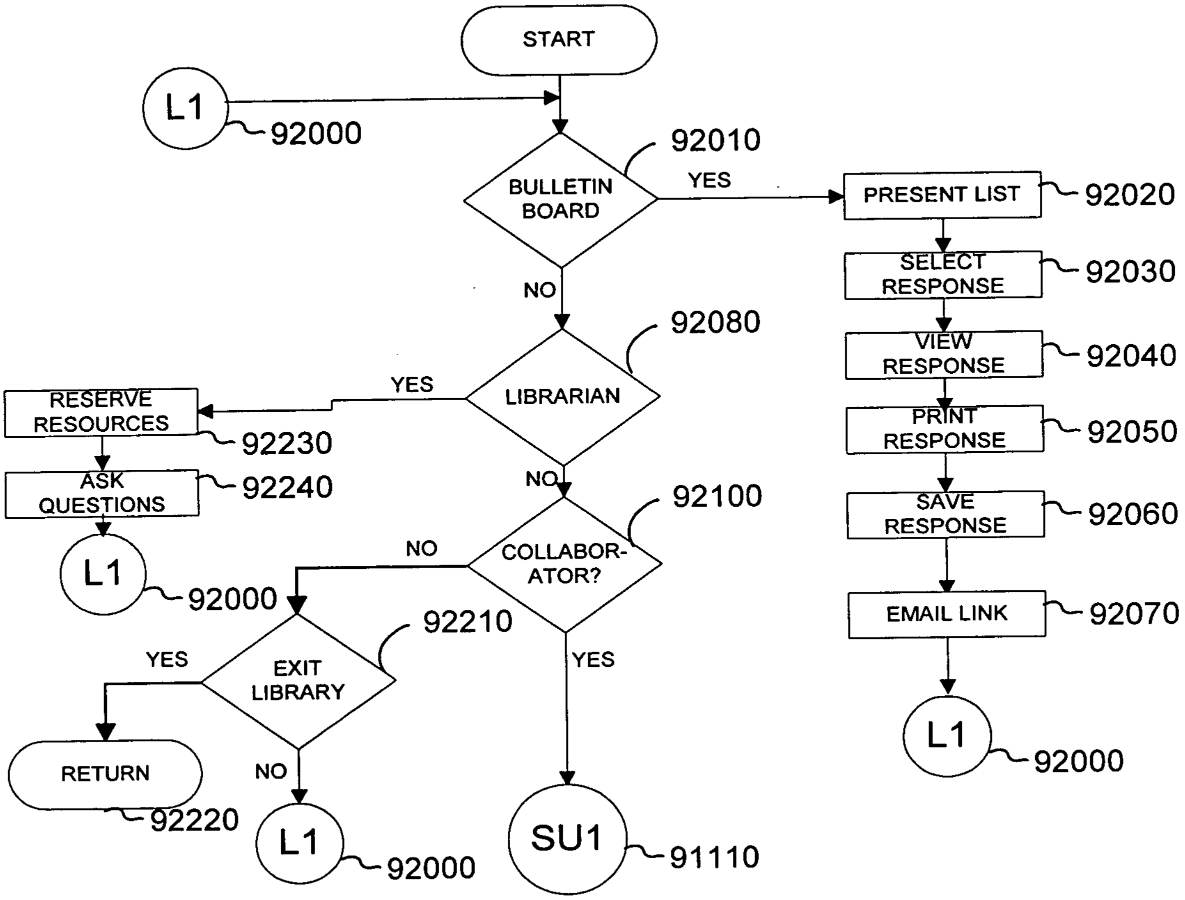

START
L1
92000
92010
BULLETIN BOARD
YES
PRESENT LIST
92020
SELECT RESPONSE
92030
VIEW RESPONSE
92040
PRINT RESPONSE
92050
SAVE RESPONSE
92060
EMAIL LINK
92070
L1
92000
NO
92080
LIBRARIAN
YES
RESERVE RESOURCES
92230
ASK QUESTIONS
92240
L1
92000
NO
92100
COLLABOR-ATOR?
NO
YES
92210
EXIT LIBRARY
YES
RETURN
92220
NO
L1
92000
SU1
91110

FIGURE 92

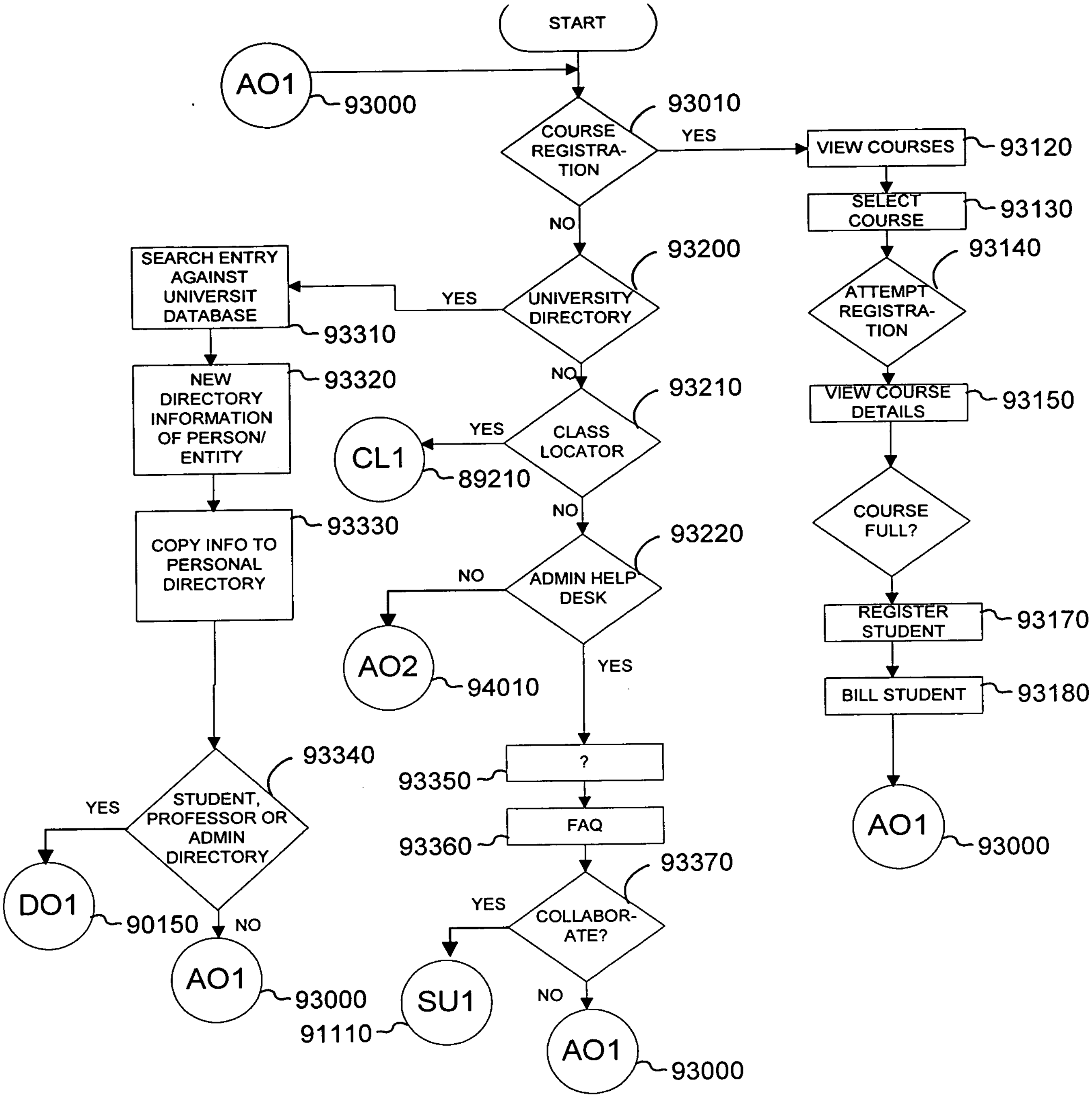

START
AO1
93000
93010
COURSE REGISTRATION
YES
NO
VIEW COURSES
93120
SELECT COURSE
93130
93140
ATTEMPT REGISTRATION
VIEW COURSE DETAILS
93150
COURSE FULL?
REGISTER STUDENT
93170
BILL STUDENT
93180
AO1
93000
93200
UNIVERSITY DIRECTORY
YES
SEARCH ENTRY AGAINST UNIVERSIT DATABASE
93310
NEW DIRECTORY INFORMATION OF PERSON/ ENTITY
93320
COPY INFO TO PERSONAL DIRECTORY
93330
93340
STUDENT, PROFESSOR OR ADMIN DIRECTORY
YES
DO1
90150
NO
AO1
93000
NO
93210
CLASS LOCATOR
YES
CL1
89210
NO
93220
ADMIN HELP DESK
NO
AO2
94010
YES
?
93350
FAQ
93360
93370
COLLABORATE?
YES
SU1
91110
NO
AO1
93000

FIGURE 93

09934254.022801

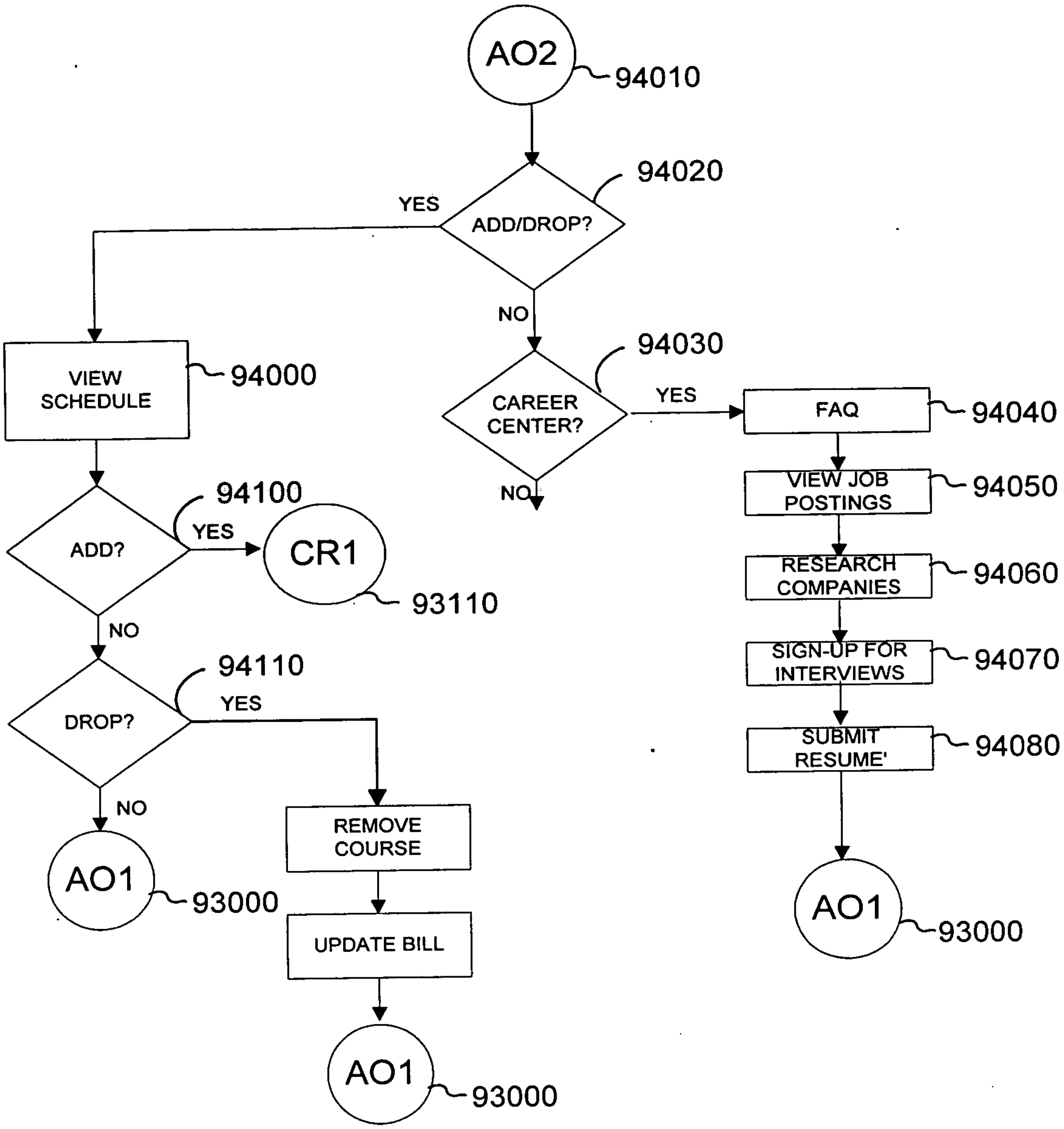

AO2
94010
94020
ADD/DROP?
YES
NO
VIEW SCHEDULE
94000
94030
CAREER CENTER?
YES
NO
FAQ
94040
VIEW JOB POSTINGS
94050
RESEARCH COMPANIES
94060
SIGN-UP FOR INTERVIEWS
94070
SUBMIT RESUME'
94080
AO1
93000
ADD?
94100
YES
CR1
93110
NO
DROP?
94110
YES
NO
AO1
93000
REMOVE COURSE
UPDATE BILL
AO1
93000

FIGURE 94

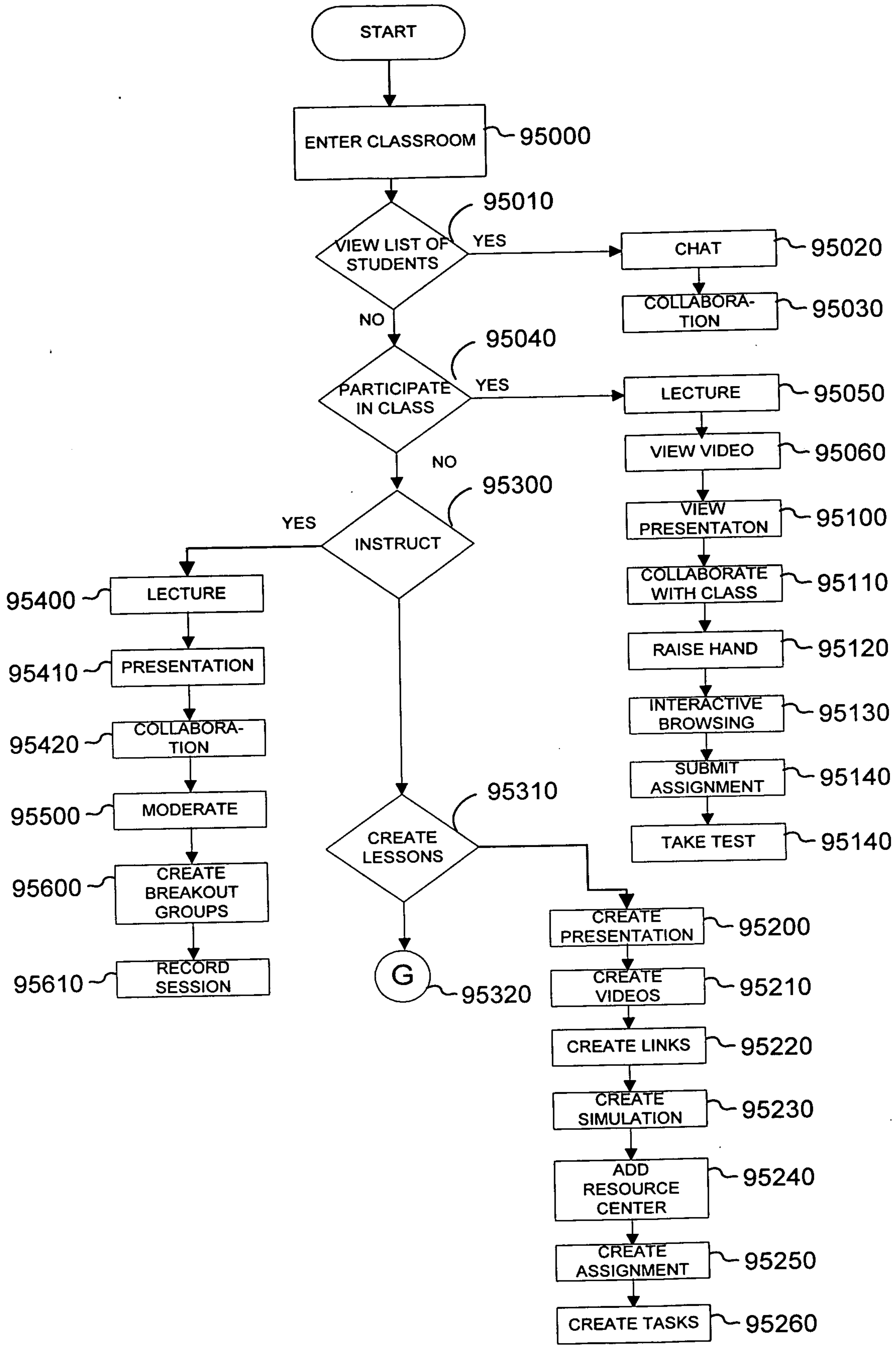

START
ENTER CLASSROOM
95000
VIEW LIST OF STUDENTS
95010
YES
CHAT
95020
COLLABORA-TION
95030
NO
PARTICIPATE IN CLASS
95040
YES
LECTURE
95050
VIEW VIDEO
95060
NO
VIEW PRESENTATON
95100
INSTRUCT
95300
YES
COLLABORATE WITH CLASS
95110
LECTURE
95400
RAISE HAND
95120
PRESENTATION
95410
INTERACTIVE BROWSING
95130
COLLABORA-TION
95420
SUBMIT ASSIGNMENT
95140
MODERATE
95500
95310
CREATE LESSONS
TAKE TEST
95140
CREATE BREAKOUT GROUPS
95600
CREATE PRESENTATION
95200
RECORD SESSION
95610
G
95320
CREATE VIDEOS
95210
CREATE LINKS
95220
CREATE SIMULATION
95230
ADD RESOURCE CENTER
95240
CREATE ASSIGNMENT
95250
CREATE TASKS
95260

FIGURE 95

09634924 .082201

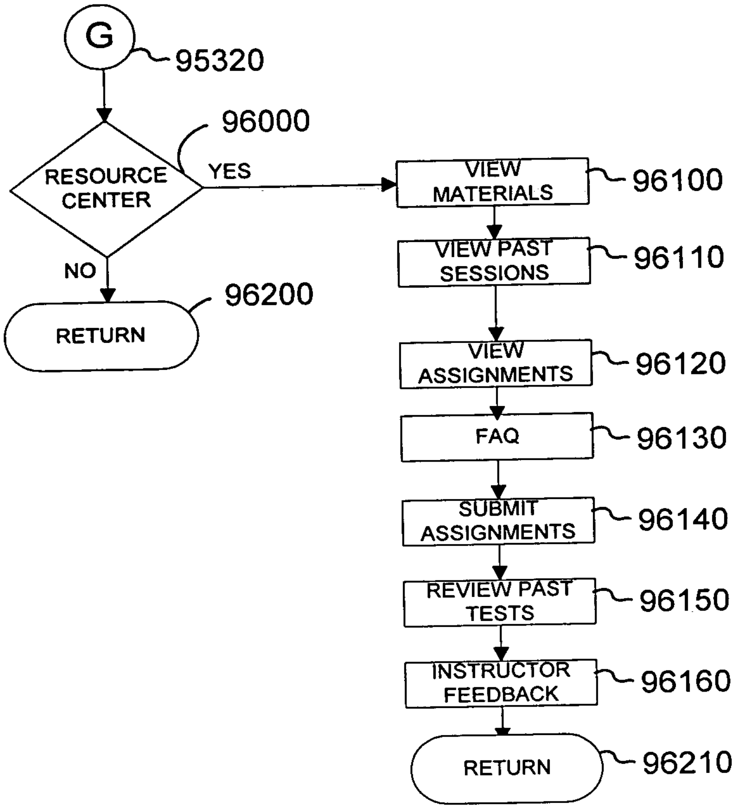
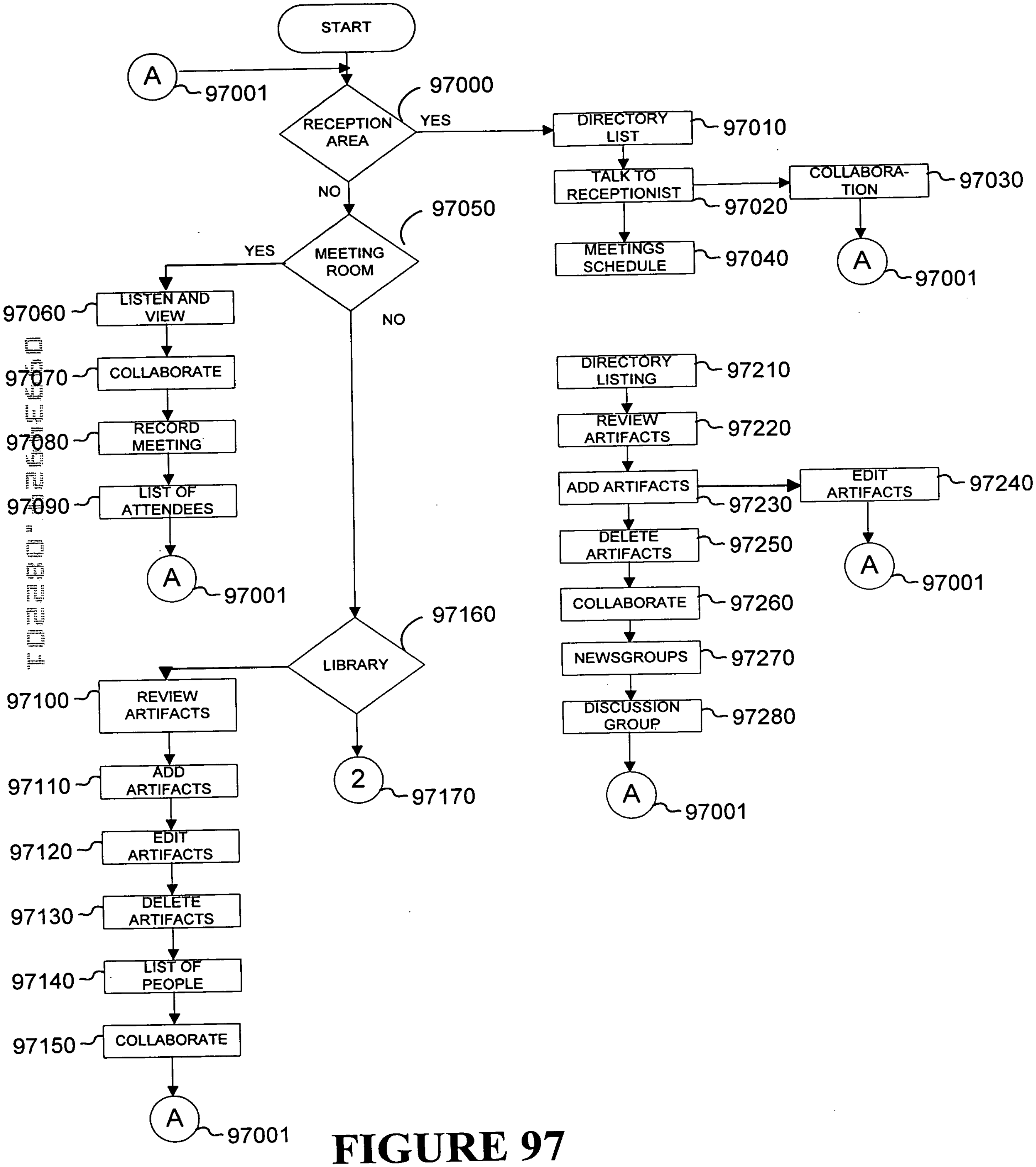

G
95320
96000
RESOURCE CENTER
YES
NO
RETURN
96200
VIEW MATERIALS
96100
VIEW PAST SESSIONS
96110
VIEW ASSIGNMENTS
96120
FAQ
96130
SUBMIT ASSIGNMENTS
96140
REVIEW PAST TESTS
96150
INSTRUCTOR FEEDBACK
96160
RETURN
96210

FIGURE 96

09934924.082201


START
A
97001
97000
RECEPTION AREA
YES
DIRECTORY LIST
97010
TALK TO RECEPTIONIST
97020
COLLABORA-TION
97030
A
97001
MEETINGS SCHEDULE
97040
NO
97050
MEETING ROOM
YES
LISTEN AND VIEW
97060
COLLABORATE
97070
RECORD MEETING
97080
LIST OF ATTENDEES
97090
A
97001
NO
DIRECTORY LISTING
97210
REVIEW ARTIFACTS
97220
ADD ARTIFACTS
97230
EDIT ARTIFACTS
97240
A
97001
DELETE ARTIFACTS
97250
COLLABORATE
97260
NEWSGROUPS
97270
DISCUSSION GROUP
97280
A
97001
97160
LIBRARY
REVIEW ARTIFACTS
97100
ADD ARTIFACTS
97110
EDIT ARTIFACTS
97120
DELETE ARTIFACTS
97130
LIST OF PEOPLE
97140
COLLABORATE
97150
A
97001
2
97170

10228880.032902

FIGURE 97

09934924.082201

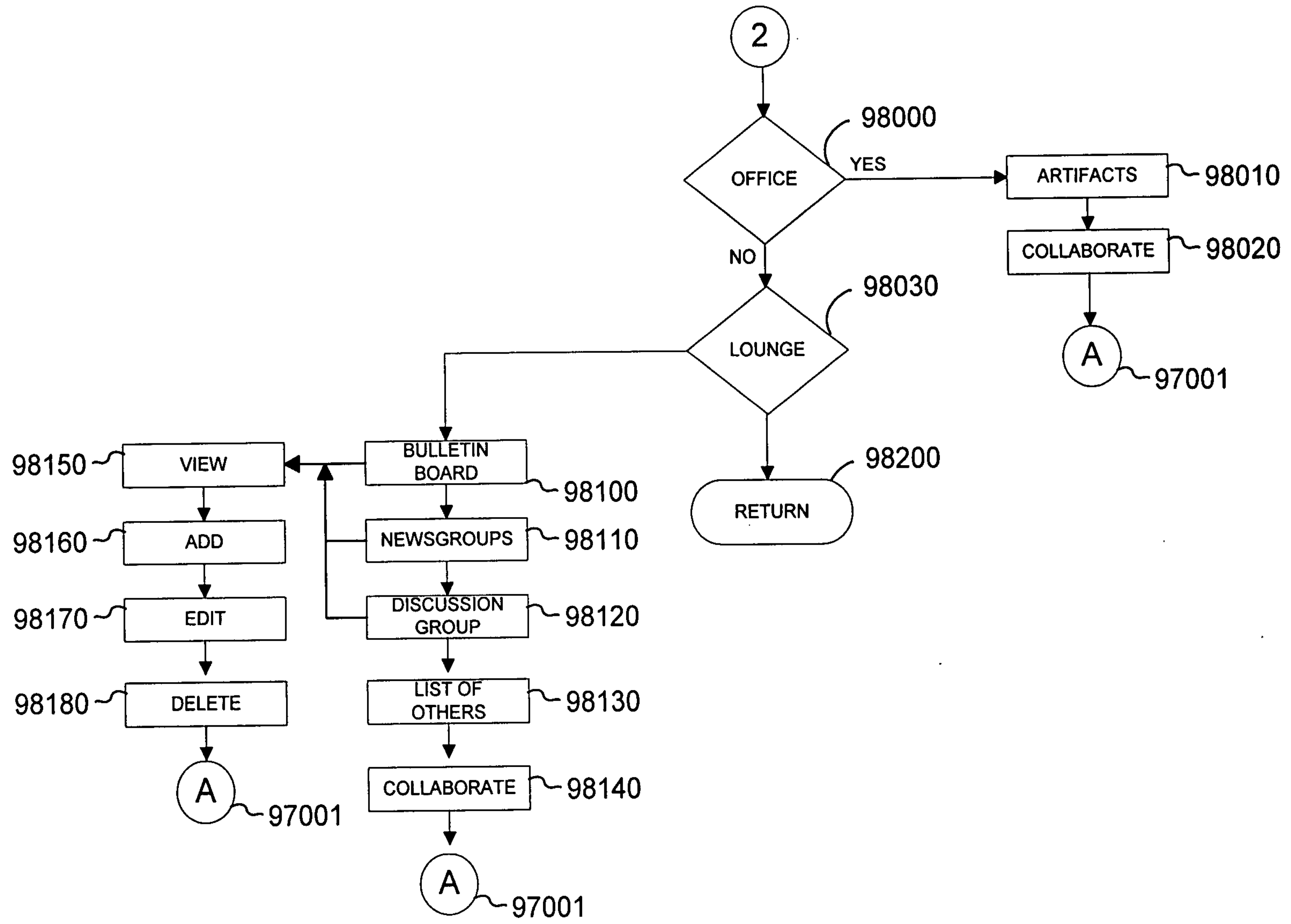

2
OFFICE
98000
YES
NO
ARTIFACTS
98010
COLLABORATE
98020
A
97001
LOUNGE
98030
RETURN
98200
BULLETIN BOARD
98100
NEWSGROUPS
98110
DISCUSSION GROUP
98120
LIST OF OTHERS
98130
COLLABORATE
98140
A
97001
VIEW
98150
ADD
98160
EDIT
98170
DELETE
98180
A
97001

FIGURE 98

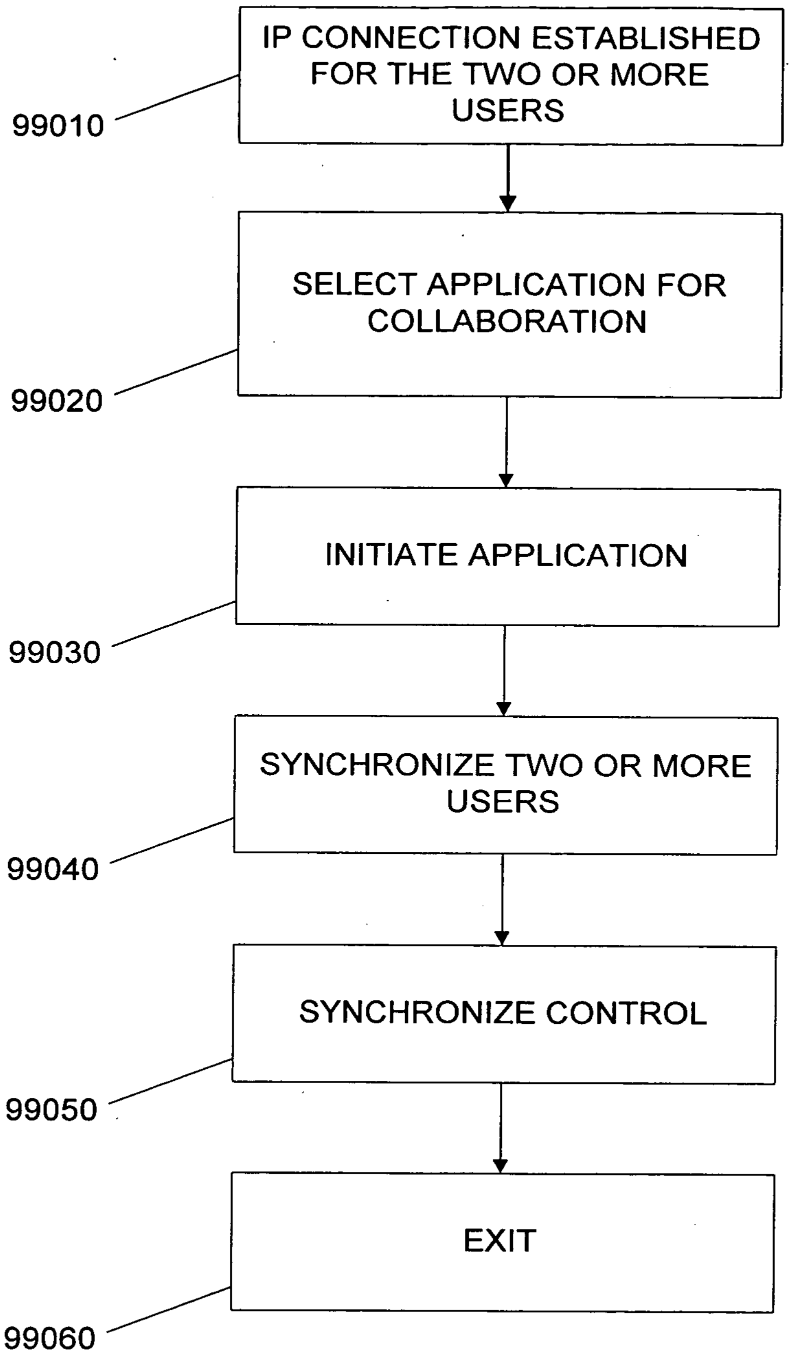

IP CONNECTION ESTABLISHED FOR THE TWO OR MORE USERS
99010
SELECT APPLICATION FOR COLLABORATION
99020
INITIATE APPLICATION
99030
SYNCHRONIZE TWO OR MORE USERS
99040
SYNCHRONIZE CONTROL
99050
EXIT
99060

FIGURE 99